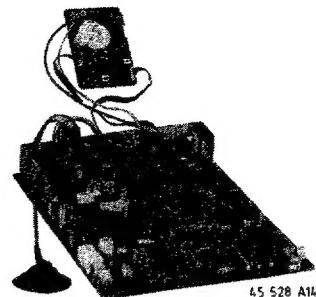


Service  
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Service



# Service Manual

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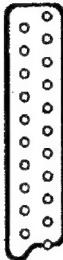
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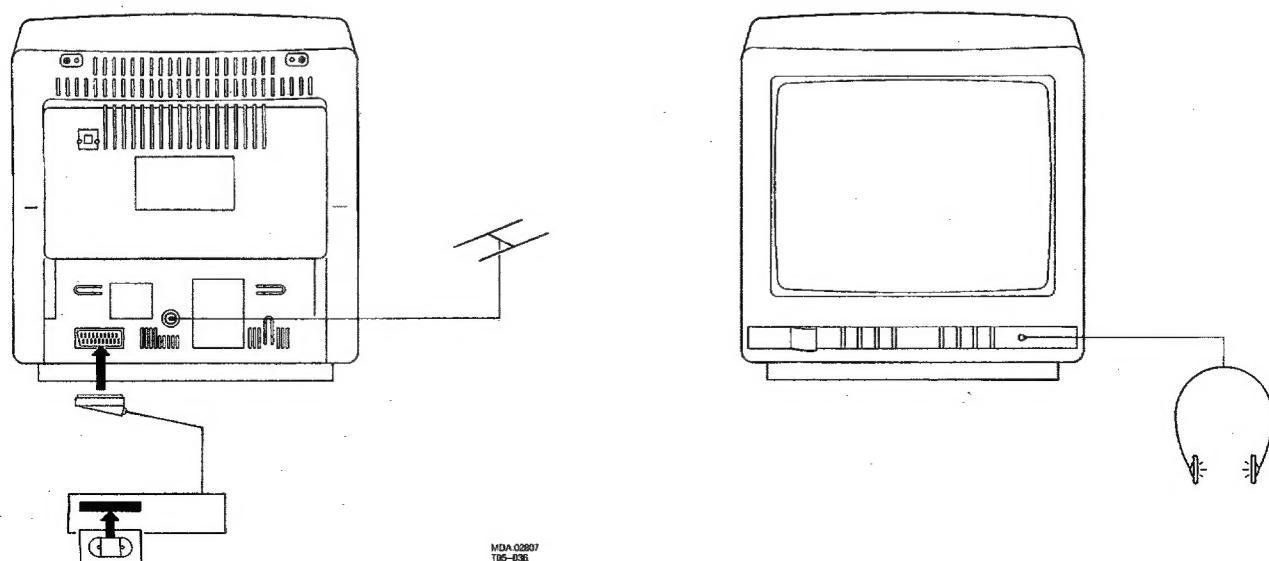
## Technical specification

|                               |   |
|-------------------------------|---|
| Mains voltage                 | : 220-240 V $\pm$ 10 %, 50 Hz $\pm$ 5 % |
| Aerial input impedance        | : 75 $\Omega$ - coax                    |
| Minimum aerial input VHF      | : 30 $\mu$ V                            |
| Minimum aerial input UHF      | : 40 $\mu$ V                            |
| Maximum aerial input          | : 180mV                                 |
| Pull-in range colour sync     | : $\pm$ 300Hz                           |
| Pull-in range horizontal sync | : $\pm$ 600Hz                           |
| Pull-in range vertical sync   | : $\pm$ 5Hz                             |
| Picture tube range            | : 14", 15", 17" and 21"                 |

### Euroconnector:

|   |   |
|---|---|
|  | 1 - Audio $\oplus$ R (0,5V RMS $\leq$ 1k $\Omega$ )       |
|   | 2 - Audio $\ominus$ R (0,2 - 2V RMS $\geq$ 10k $\Omega$ ) |
|   | 3 - Audio $\oplus$ L (0,5V RMS $\leq$ 1k $\Omega$ )       |
|   | 4 - Audio $\perp$   |
|   | 5 - Blue $\perp$  |
|   | 6 - Audio $\ominus$ L (0,2 - 2V RMS $\geq$ 10k $\Omega$ ) |
|   | 7 - Blue (0,7V <sub>pp</sub> /75 $\Omega$ )               |
|   | 8 - CVBS-status 1 $\ominus$ (0-2V int.)(10-12V ext.)      |
|   | 9 - Green $\perp$   |
|   | 10 -  |
|   | 11 - Green (0,7V <sub>pp</sub> /75 $\Omega$ )             |
|   | 12 -  |
|  | 13 - Red $\perp$  |
|   | 14 -  |
|   | 15 - Red (0,7V <sub>pp</sub> /75 $\Omega$ )               |
|   | 16 - RGB-status (0-0,4V int.)(1-3V ext. 75 $\Omega$ )     |
|   | 17 - CVBS $\perp$   |
|   | 18 - CVBS $\perp$   |
|   | 19 - CVBS $\oplus$ (1V <sub>pp</sub> /75 $\Omega$ )       |
|   | 20 - CVBS $\ominus$ (1V <sub>pp</sub> /75 $\Omega$ )      |
|   | 21 - Earthscreen  |

Head phone: 8 - 1000 $\Omega$  3.5 mm mini jack



1. A set to be repaired should always be connected to the mains via a suitable isolating transformer.
2. Safety regulations demand that the set be restored to its original condition and that components identical with the original types be used. Safety components are marked by the symbol
3. To prevent damage to ICs and transistors any flash-over of the EHT should be avoided. To prevent damage to the picture tube the method, indicated in Fig. 1, has to be applied to discharge the picture tube. Make use of an EHT probe and a universal meter (position DC-V). Discharge until the reading of the meter is 0V (after approx. 30s).
4. **ESD**

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools on the same potential.

5. Together with the deflection unit and the possible multipole unit the flat square picture tubes applied form one whole. The deflection and multipole units have been adjusted optimally in the factory. Adjustment of these units during repair is thus not recommended.
6. The EHT cable has been bonded in the line output transformer. It can thus not be replaced.
7. Proceed with care when testing the EHT section and the picture tube.
8. Never replace any modules or any other parts while the set is switched on.
9. Wear safety goggles during replacement of the picture tube.
10. Use plastic instead of metal alignment tools. This in order to preclude short-circuit or to prevent a specific circuit from being rendered unstable.

## 1. Service default mode

The service default mode (SDM) is a fixed, defined state the set can be brought in. All controls are in a fixed position and the automatic switch-off feature is disabled. The set accepts all commands via the remote control or the local keyboard.

To switch on the SDM, connect pin 7 of IC7600 to ground and switch on the set with the mains switch. The SDM can be left by switching the set into stand-by or by switching off the set with the mains switch.

2. The direct voltages and waveforms should be measured relative to the nearest earthing point on the printed circuit board.

3. The direct voltages and oscilloscopes are measured with a switched on service default mode. Use a colour bar pattern of pattern generator PM5515 as input signal.

4. If necessary, the oscilloscopes and DC voltages are measured with ) and without ) aerial signal. Voltages in the power supply section have been measured for both normal operation (I) and in the stand-by mode (U). These values have been indicated by means of the corresponding symbols.

5. The components, mentioned in the parts lists, are per position completely interchangeable with the components in the set, irrespective of the possible type indications.

6. The picture tube board is provided with printed spark gaps. Each spark gap is arranged between an electrode of the picture tube and the aquadag coating.

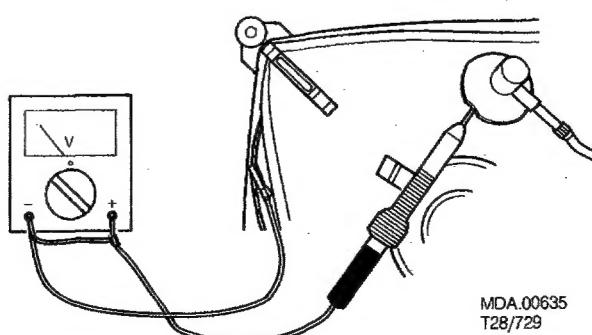


Fig. 1

## 7. Servicing of SMDs (Surface Mounted Devices)

### 7.1 General cautions on handling and storage.

- a. Oxidation on the SMDs terminals results in poor soldering. Do not handle SMDs with bare hands.
- b. Avoid for storage places that are sensitive to oxidation such as places with sulfur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.  
As a result the capacitance or resistance value of the SMDs may be affected.
- c. Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

### 7.2 Removal of SMDs

- a. Heat the solder (for 2-3 seconds) at each terminal of the chip. Small components can, by means of litz wire and a limited horizontal force, be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 2) or
- b. While holding the SMD with a pair of tweezers take it off gently using the soldering iron's heat applied to each terminal (see Fig. 2B).
- c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 2C).

#### Caution on removal:

- a. When handling the soldering iron, use suitable pressure and be careful.
- b. When removing the chip, do not use undue force with the pair of tweezers.
- c. The soldering iron to be used (approx. 30 W), must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
- d. The chip, once removed, must **never** be used again.

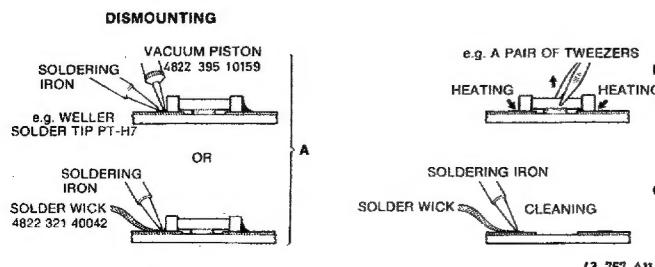


Fig. 2

### 7.3 Attachment of SMDs

- a. Locate the SMD on the solder lands by means of tweezers and solder the component at one side. Ensure that the component is positioned well on the solder lands (see Fig. 3A).
- b. Next complete the soldering of the terminals of the component (see Fig. 3B).

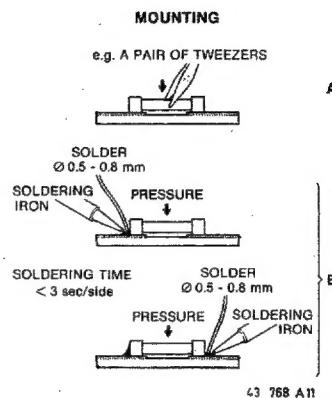


Fig. 3

#### Caution on attachment:

- a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering must be as quick as possible; care must be taken to avoid damage to the terminals and the body itself.
- b. Keep the SMD's body in contact with the printed board when soldering.
- c. The soldering iron to be used (approx. 30 W) must preferably be provided with a thermal control (soldering temperature about 225 to 250°C).
- d. Soldering should not be done outside the solder land.
- e. Soldering flux (of rosin) may be used but should not be acidic.
- f. After soldering, let the SMD cool down gradually at room temperature.
- g. The quantity of solder must be proportional with the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 4).

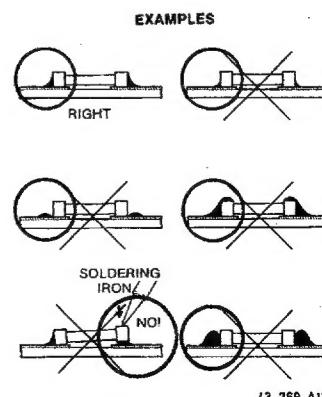


Fig. 4

## 1. Servicing position

To facilitate troubleshooting and repairing the set, the chassis can, after disconnection of the degaussing coil, be pulled out of the cabinet, turned 180°, and placed behind it (see Fig. 5).

## 2. Flat square picture tube fixation.

Demounting the picture tube:  
Loosen the nuts by turning them with a box spanner hexagon (10 mm) **clockwise**, (see Fig. 6).

Mounting the picture tube:  
Turn the spindles **counterclockwise** into the mask with a box spanner hexagon (4 mm).  
Locate the picture tube in the mask. The easiest way is placing the cabinet with the front facing down.  
Position the picture tube in the middle of the mask.  
Turn the spindles **clockwise** until the nut can be fixed onto the spindle.  
Turn the nut **counterclockwise** finger-tight against the picture tube fixation.  
Turn the spindle **clockwise** until the whole has been fixed tightly (the nut must not turn any more).

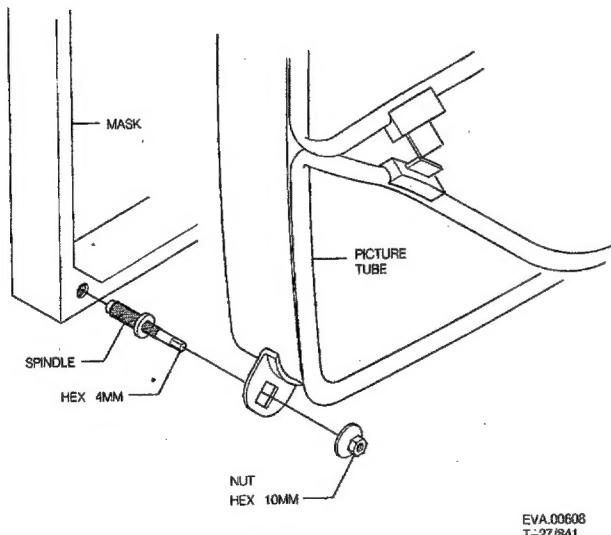
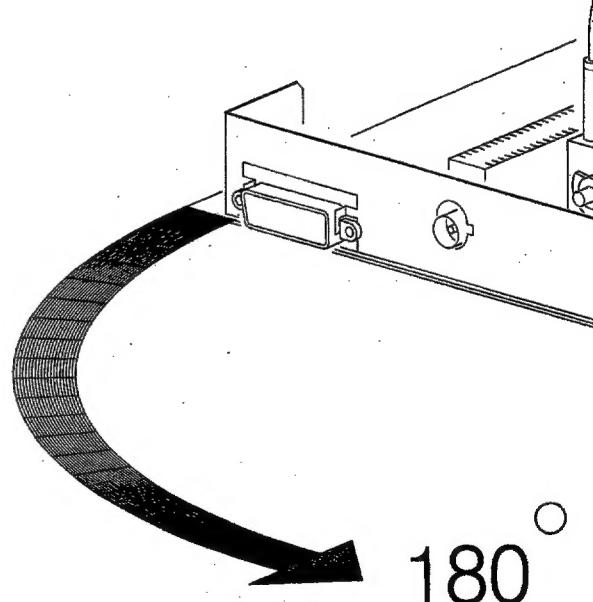


Fig. 6



4.1

4.2

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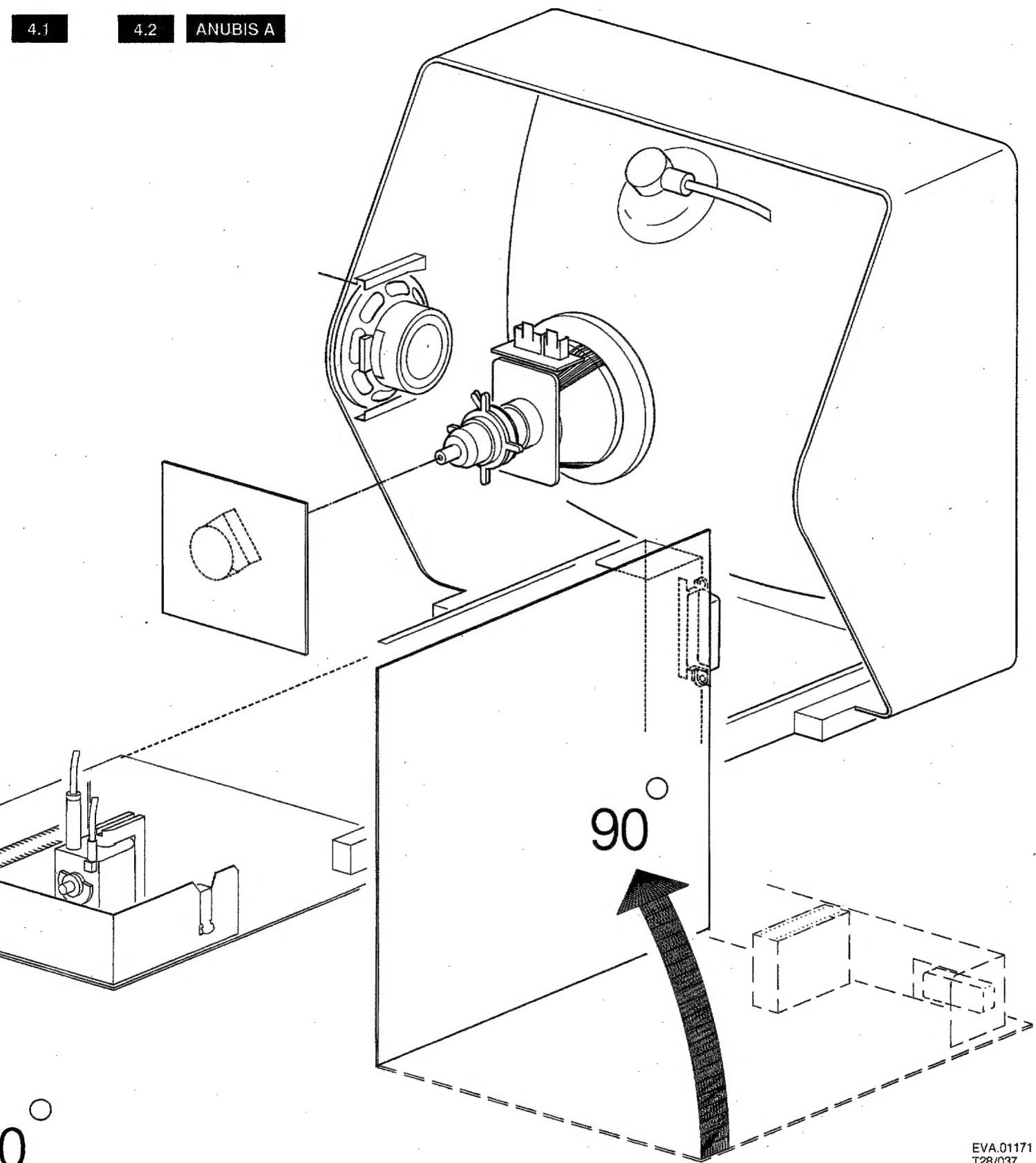


Fig. 5

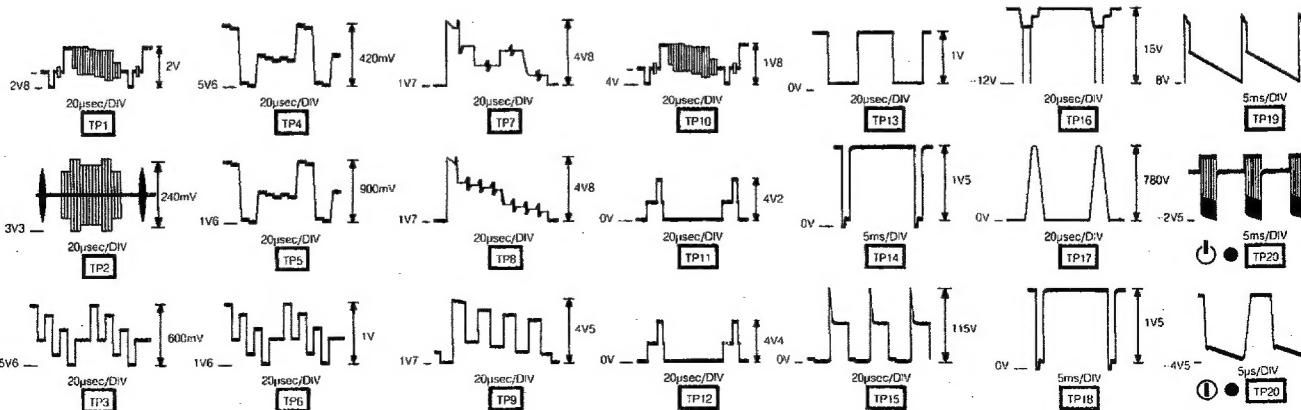
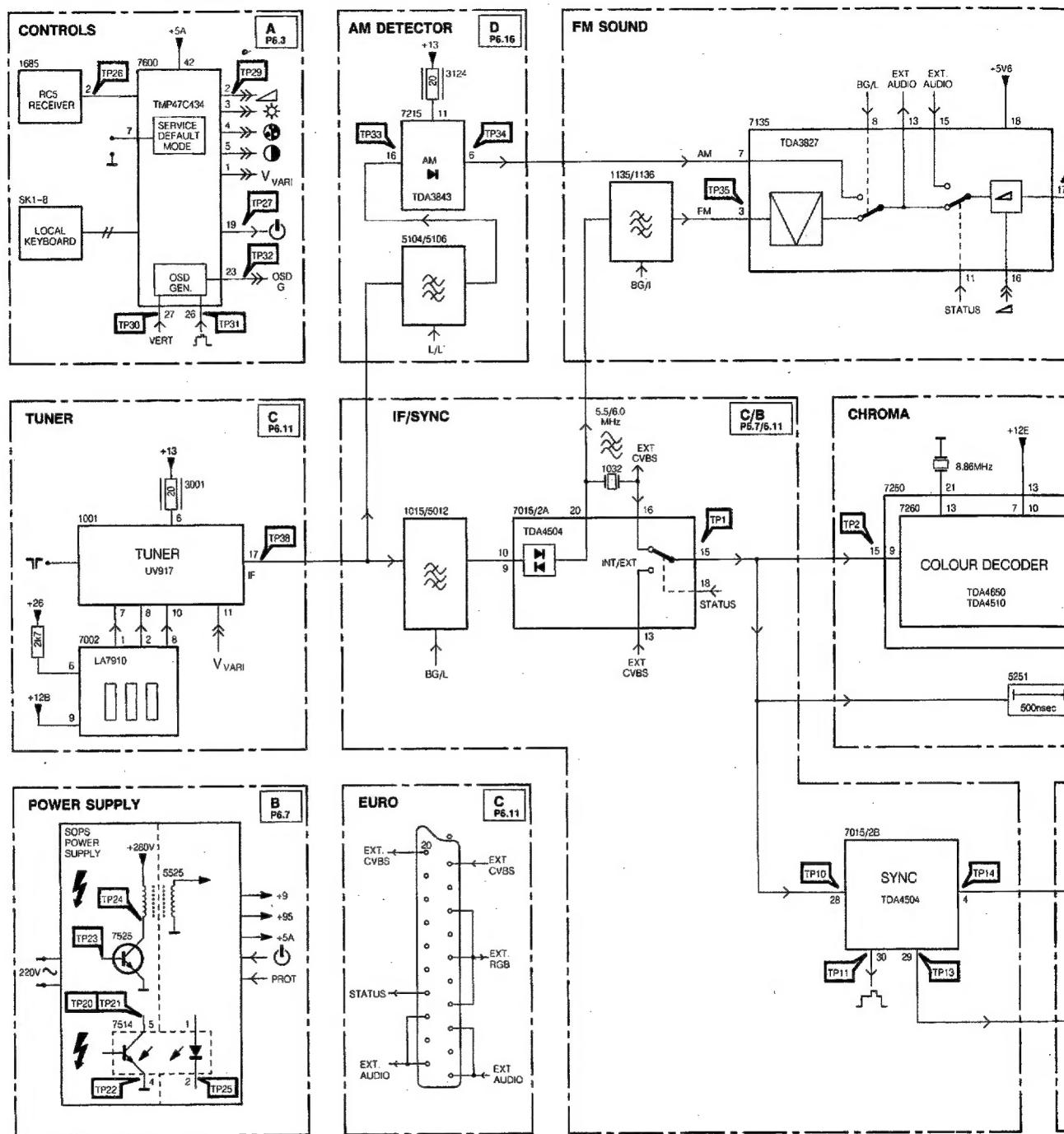
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# Blockdiagramm

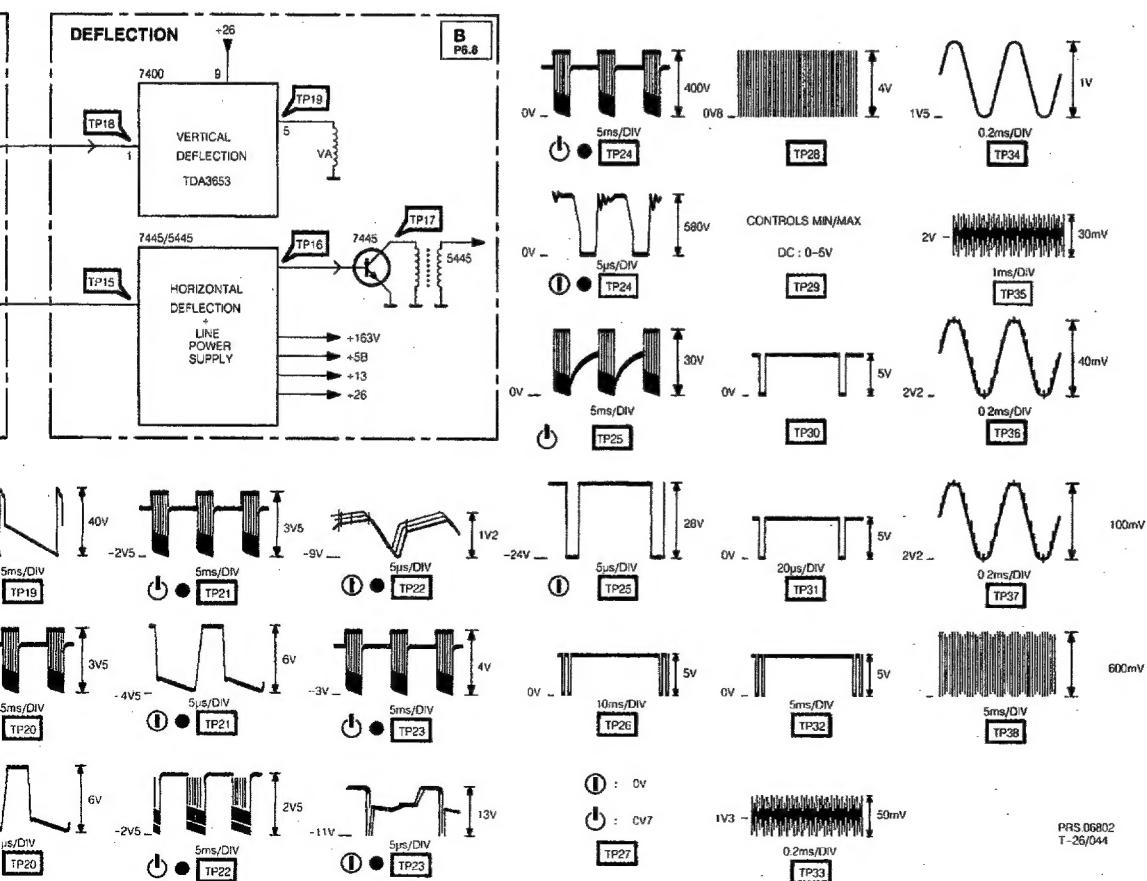
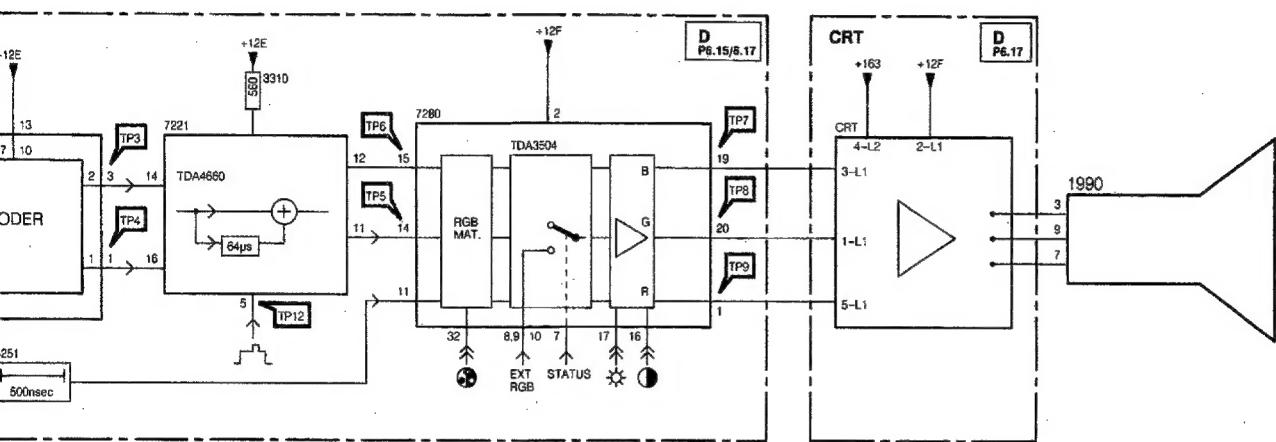
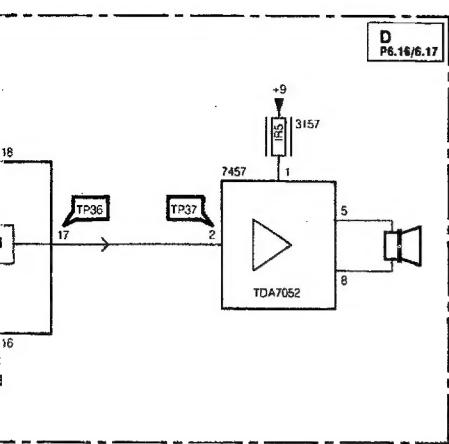
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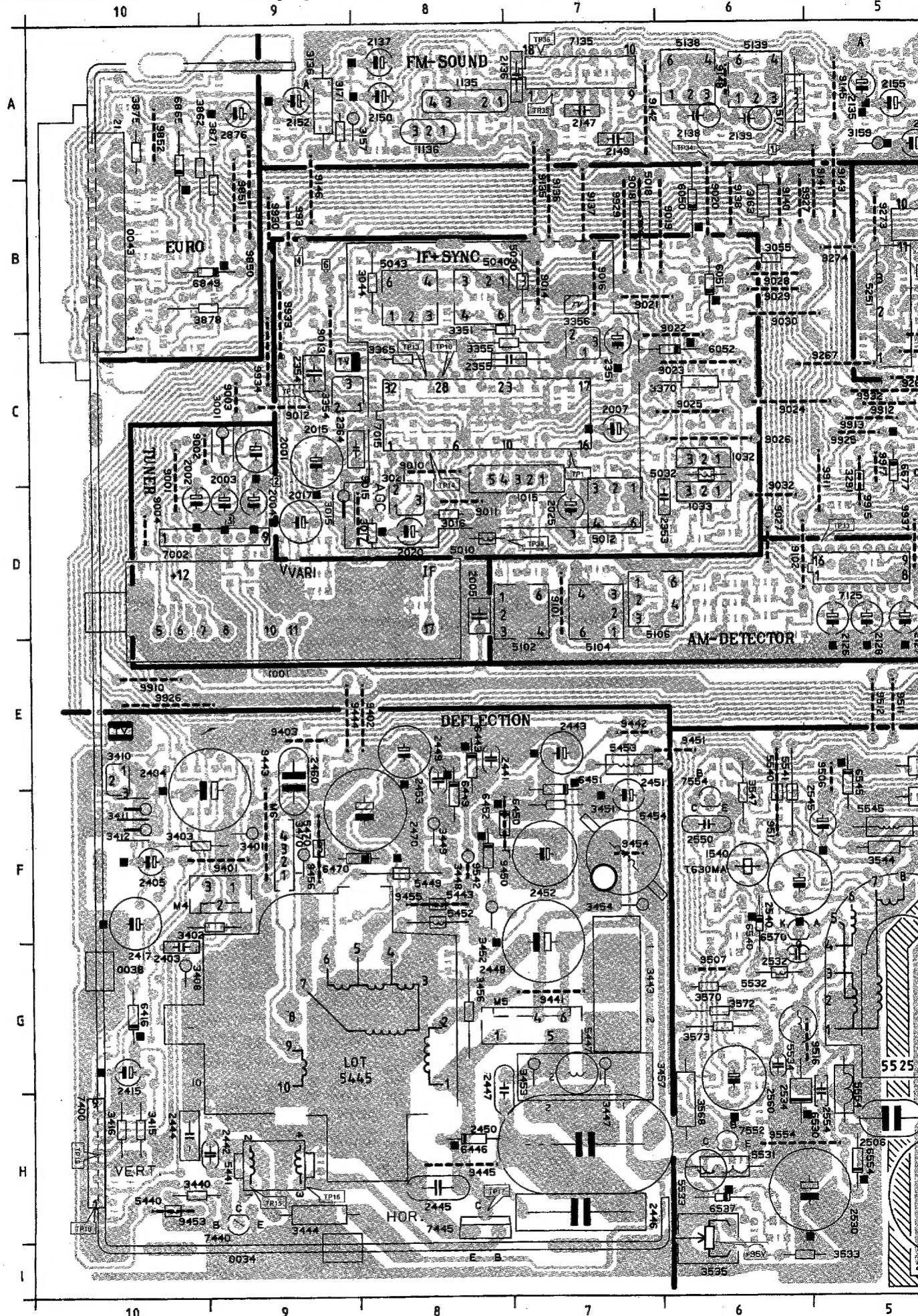
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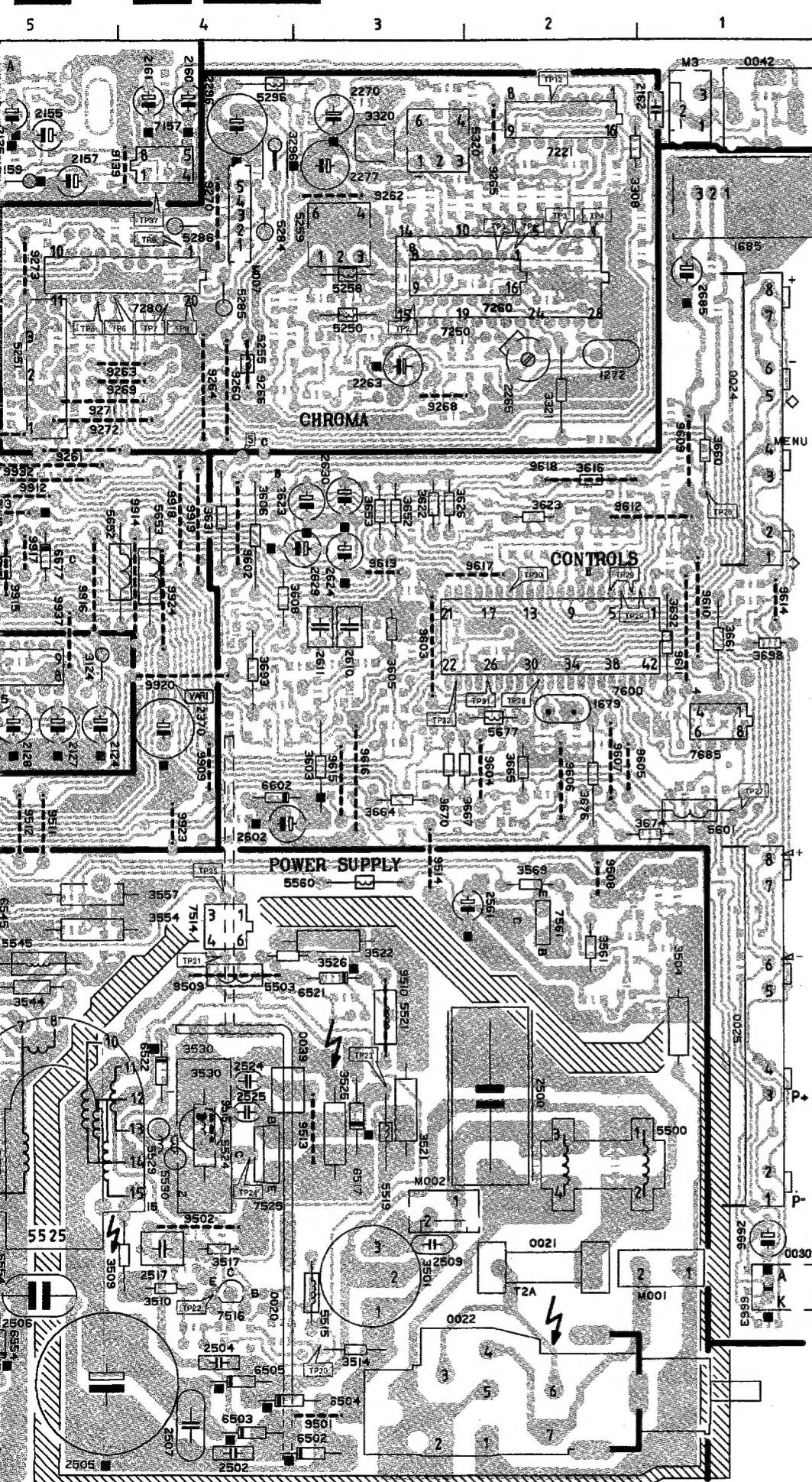
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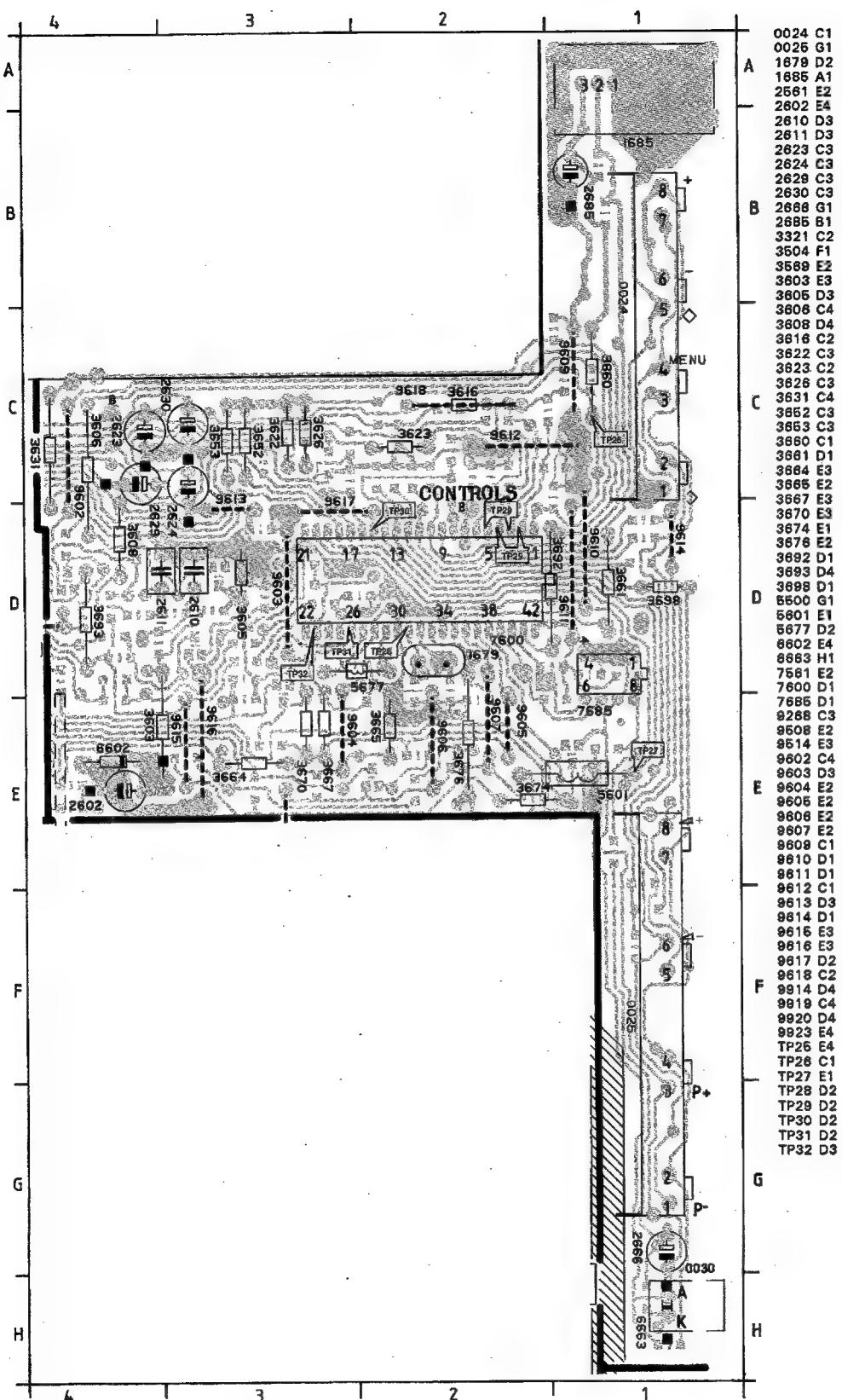
## Schéma-bloc





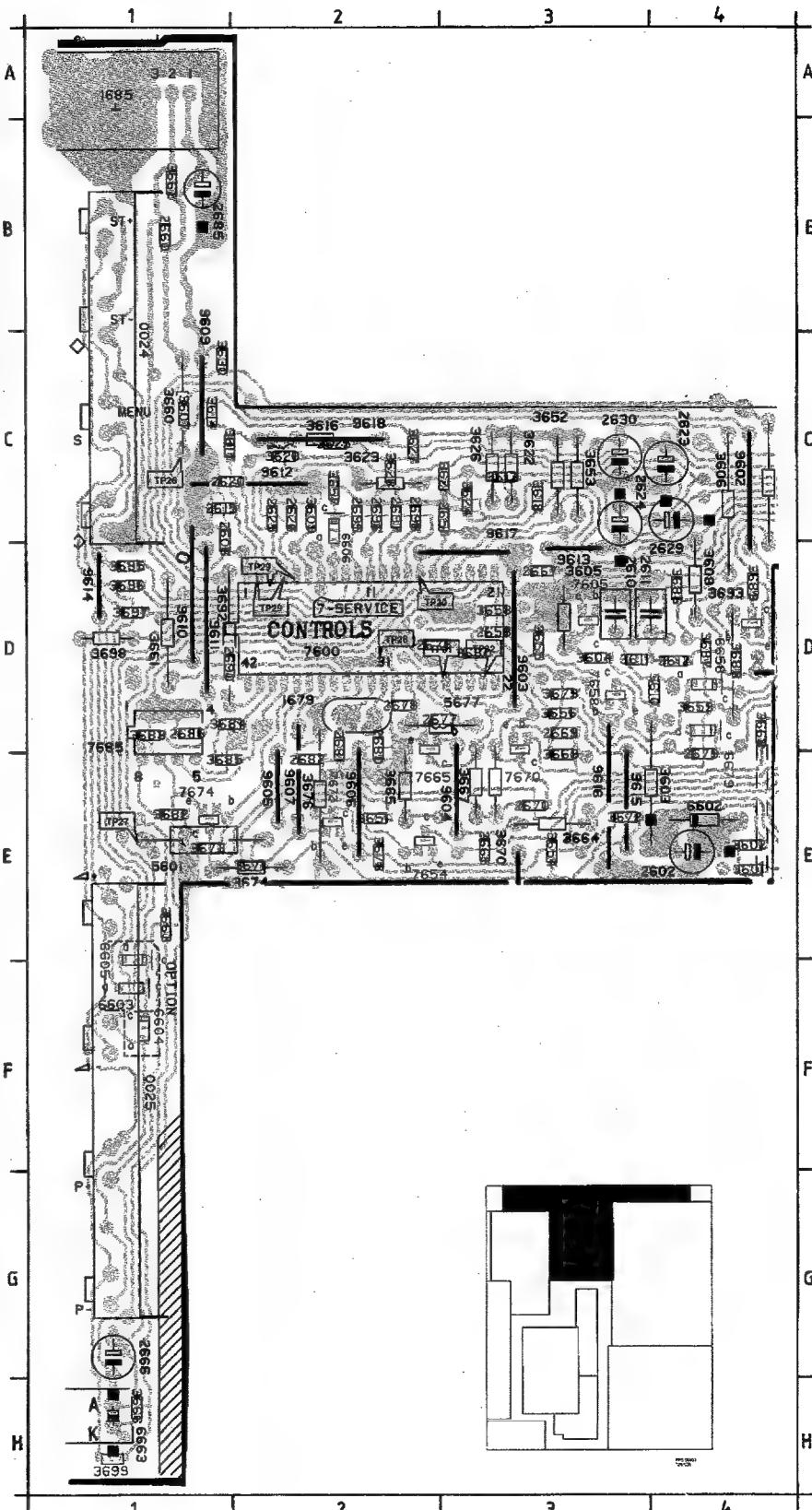


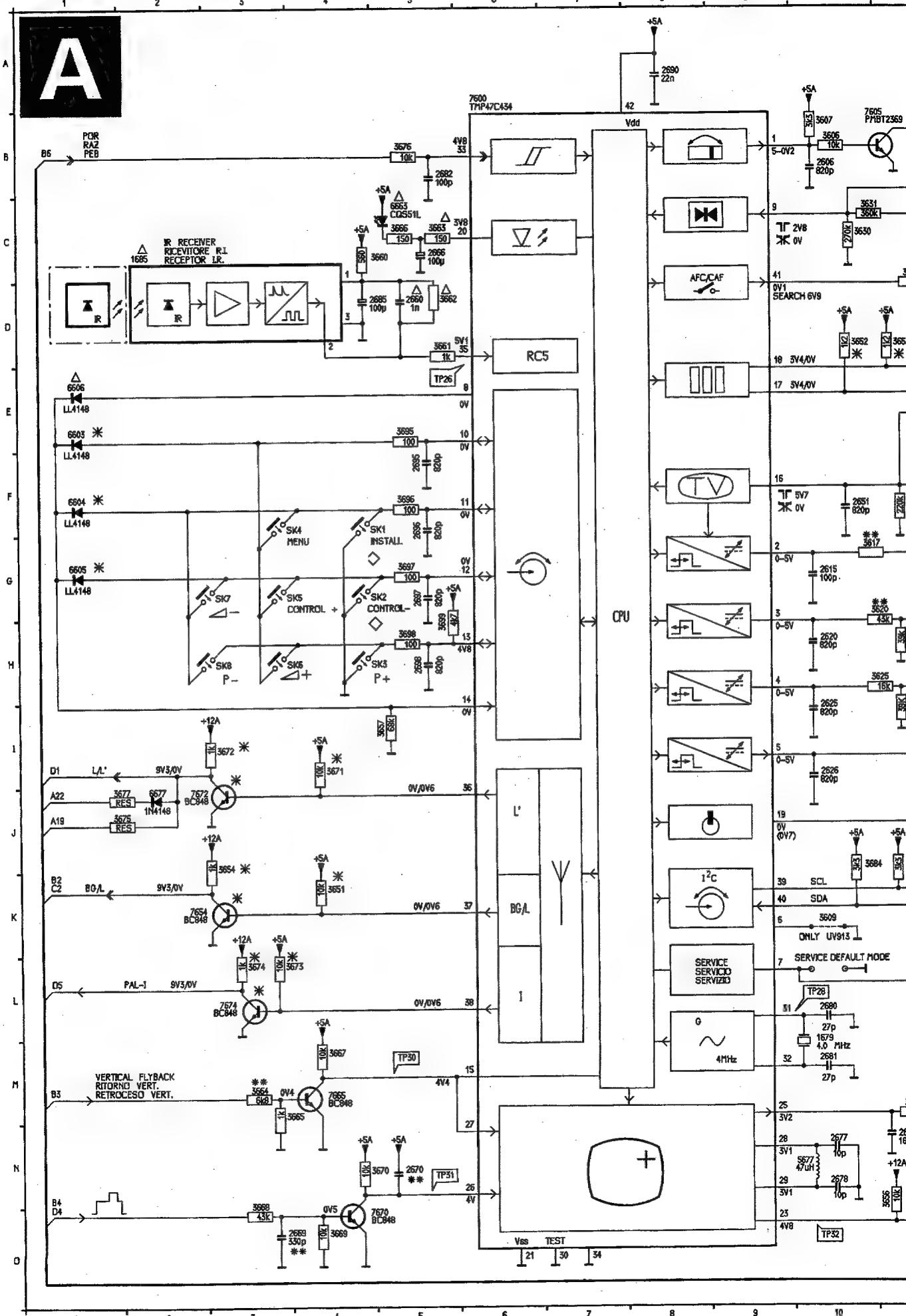
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|------|-----|------|-----|------|-----|------|-----|
| 0021 | H2  | 3356 | C7  | 5554 | H5  | 9502 | G4  |
| 0022 | I2  | 3365 | C8  | 5560 | E3  | 9506 | E5  |
| 0024 | C1  | 3370 | C6  | 5601 | E1  | 9507 | G8  |
| 0025 | G1  | 3401 | F9  | 5652 | D5  | 9508 | E2  |
| 0042 | A1  | 3402 | F9  | 5653 | D4  | 9509 | F4  |
| 0043 | C10 | 3403 | F10 | 5677 | D2  | 9510 | F3  |
| 1001 | D10 | 3408 | G10 | 6050 | B6  | 9511 | E5  |
| 1015 | C7  | 3410 | E10 | 6051 | B6  | 9512 | E5  |
| 1032 | C8  | 3411 | F10 | 6052 | C6  | 9513 | G3  |
| 1033 | D8  | 3412 | F10 | 6416 | G10 | 9514 | E3  |
| 1135 | A8  | 3415 | H10 | 6443 | E8  | 9515 | G4  |
| 1136 | A8  | 3416 | H10 | 6446 | H8  | 9516 | G8  |
| 1272 | B2  | 3440 | H10 | 6448 | F8  | 9517 | F6  |
| 1540 | F8  | 3443 | G7  | 6450 | F8  | 9554 | H6  |
| 1679 | D2  | 3444 | H9  | 6451 | F7  | 9802 | C4  |
| 1885 | A1  | 3447 | G7  | 6452 | F8  | 9803 | D3  |
| 2001 | C9  | 3448 | F8  | 6470 | F8  | 9804 | E2  |
| 2002 | D10 | 3449 | F8  | 6502 | I3  | 9805 | E2  |
| 2003 | D9  | 3451 | F7  | 6503 | H4  | 9806 | E2  |
| 2004 | D9  | 3452 | F8  | 6504 | H4  | 9807 | E2  |
| 2005 | D8  | 3453 | G7  | 6505 | H4  | 9809 | C1  |
| 2007 | C7  | 3454 | F7  | 6517 | G3  | 9810 | G1  |
| 2015 | C9  | 3458 | G8  | 6521 | F3  | 9811 | D1  |
| 2017 | D9  | 3457 | G7  | 6522 | F4  | 9812 | C1  |
| 2020 | D8  | 3470 | F9  | 6530 | H6  | 9813 | D3  |
| 2025 | D7  | 3501 | H3  | 6537 | H6  | 9814 | D1  |
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| 2147 | A7  | 3526 | F4  | 6865 | A10 | 9910 | E10 |
| 2149 | A7  | 3530 | G4  | 7002 | D10 | 9911 | E6  |
| 2150 | A8  | 3530 | G4  | 7015 | C8  | 9912 | C5  |
| 2152 | A9  | 3533 | I6  | 7125 | D5  | 9913 | C5  |
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| 2157 | A5  | 3544 | F5  | 7157 | A4  | 9915 | D5  |
| 2160 | A4  | 3547 | F6  | 7221 | A2  | 9916 | D5  |
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| 2182 | A1  | 3557 | E5  | 7280 | B4  | 9918 | C5  |
| 2283 | B3  | 3561 | F2  | 7400 | H10 | 9919 | C4  |
| 2285 | B2  | 3568 | H6  | 7440 | H9  | 9920 | D4  |
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| 2355 | C7  | 3608 | C4  | 7581 | E2  | 9880 | B9  |
| 2364 | C8  | 3608 | D4  | 7600 | D1  | 9881 | B9  |
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| 2405 | F10 | 3628 | C3  | 8003 | C9  | 9937 | D5  |
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| 3183 | B6  | 5525 | G5  | 9444 | E9  |      |     |
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| 3320 | A3  | 5533 | H6  | 9453 | H10 |      |     |
| 3321 | C2  | 5534 | G8  | 9454 | F7  |      |     |
| 3351 | C8  | 5540 | F6  | 9455 | F8  |      |     |
| 3354 | C8  | 5541 | F6  | 9456 | F9  |      |     |
| 3355 | C7  | 5545 | F5  | 9501 | H3  |      |     |

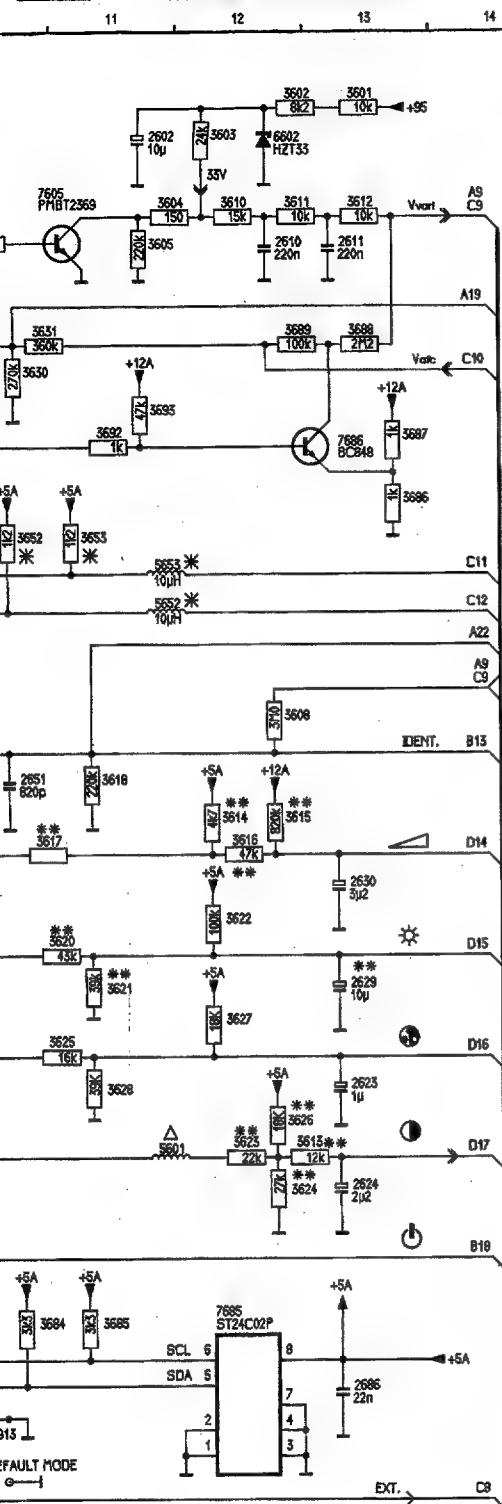


## Commandes

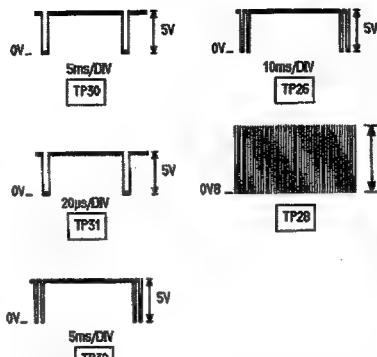
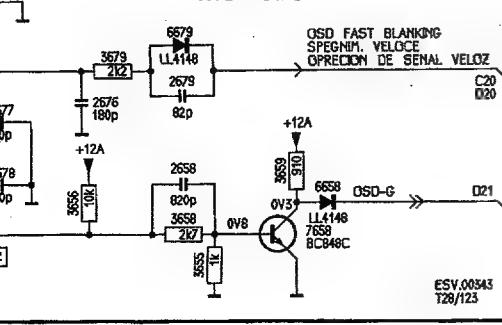
|      |    |      |    |
|------|----|------|----|
| 0024 | C1 | 3678 | E2 |
| 0025 | G1 | 3679 | D3 |
| 1679 | D2 | 3680 | D3 |
| 1685 | A1 | 3682 | E1 |
| 2267 | C3 | 3683 | D1 |
| 2278 | B1 | 3684 | D2 |
| 2280 | B1 | 3685 | E1 |
| 2310 | C3 | 3686 | D2 |
| 2561 | E2 | 3687 | D4 |
| 2602 | E4 | 3688 | D4 |
| 2606 | C1 | 3689 | D4 |
| 2610 | D3 | 3692 | D1 |
| 2611 | D3 | 3693 | D4 |
| 2616 | C1 | 3695 | D1 |
| 2620 | C1 | 3696 | D1 |
| 2623 | C3 | 3697 | D1 |
| 2624 | C3 | 3698 | D1 |
| 2626 | C2 | 3699 | H1 |
| 2626 | C2 | 3700 | G1 |
| 2628 | C3 | 3700 | E3 |
| 2630 | C3 | 3701 | E1 |
| 2661 | C2 | 3703 | D4 |
| 2658 | D3 | 3707 | D2 |
| 2660 | B1 | 3708 | F1 |
| 2666 | E3 | 3706 | E1 |
| 2666 | G1 | 3702 | E4 |
| 2667 | D3 | 3703 | F1 |
| 2669 | D3 | 3704 | F1 |
| 2670 | E3 | 3705 | E1 |
| 2676 | D2 | 3706 | C2 |
| 2677 | D2 | 3708 | D4 |
| 2678 | D2 | 3703 | H1 |
| 2679 | E4 | 3709 | D4 |
| 2680 | D2 | 7256 | C3 |
| 2681 | D2 | 7514 | E4 |
| 2682 | E2 | 7581 | E2 |
| 2685 | B1 | 7563 | E2 |
| 2686 | D1 | 7600 | D1 |
| 2690 | D1 | 7605 | D3 |
| 2695 | C2 | 7654 | E2 |
| 2696 | C2 | 7658 | D3 |
| 2697 | C2 | 7665 | D2 |
| 2698 | C2 | 7670 | D3 |
| 3160 | A1 | 7672 | E2 |
| 3181 | A1 | 7674 | E1 |
| 3307 | C2 | 7685 | D1 |
| 3316 | C3 | 7686 | D1 |
| 3321 | C2 | 8288 | C3 |
| 3565 | E1 | 9508 | E2 |
| 3568 | F1 | 9514 | E3 |
| 3601 | E4 | 9602 | C4 |
| 3602 | E4 | 9603 | D3 |
| 3603 | E3 | 9604 | E2 |
| 3604 | D3 | 9605 | E2 |
| 3605 | D3 | 9606 | E2 |
| 3606 | C4 | 9607 | E2 |
| 3607 | C1 | 9609 | C1 |
| 3608 | D4 | 9610 | D1 |
| 3609 | C2 | 9611 | D1 |
| 3610 | D3 | 9612 | C1 |
| 3611 | D3 | 9613 | D3 |
| 3612 | D3 | 9614 | D1 |
| 3613 | C3 | 9615 | E3 |
| 3614 | C1 | 9616 | E3 |
| 3615 | C4 | 9617 | D2 |
| 3616 | C2 | 9618 | C2 |
| 3617 | C1 | 9909 | E4 |
| 3618 | C3 | 9914 | D4 |
| 3620 | C2 | 9918 | C4 |
| 3621 | C2 | 9919 | C4 |
| 3622 | C3 | 9920 | D4 |
| 3623 | C2 | 9923 | E4 |
| 3624 | C2 | 9924 | D4 |
| 3625 | C2 | TP25 | E4 |
| 3626 | C3 | TP26 | C1 |
| 3627 | C2 | TP27 | E1 |
| 3628 | C2 | TP28 | D2 |
| 3630 | C1 | TP29 | D2 |
| 3631 | C4 | TP30 | D2 |
| 3651 | E2 | TP31 | D2 |
| 3652 | C3 | TP32 | D3 |
| 3653 | C3 |      |    |
| 3654 | E3 |      |    |
| 3655 | D3 |      |    |
| 3656 | D3 |      |    |
| 3657 | C2 |      |    |
| 3658 | D3 |      |    |
| 3659 | D4 |      |    |
| 3660 | C1 |      |    |
| 3661 | D1 |      |    |
| 3662 | B1 |      |    |
| 3663 | E1 |      |    |
| 3664 | E3 |      |    |
| 3665 | E2 |      |    |
| 3666 | H1 |      |    |
| 3667 | E3 |      |    |
| 3668 | D4 |      |    |
| 3669 | E3 |      |    |
| 3670 | E3 |      |    |
| 3671 | E1 |      |    |
| 3672 | E3 |      |    |
| 3673 | E1 |      |    |
| 3674 | E1 |      |    |
| 3678 | E2 |      |    |







**Memory**  
**Speicher**  
**Memoria**  
**Mémoire**



| POS<br>NR | SYSTEM<br>1 | SYSTEM<br>2 | SYSTEM<br>4 | SYSTEM<br>5 |
|-----------|-------------|-------------|-------------|-------------|
| 3651      | —           | —           | 10k         | 10k         |
| 3652      | 1k2         | —           | 1k2         | 1k2         |
| 3653      | 1k2         | —           | 1k2         | 1k2         |
| 3654      | —           | —           | 1k          | 1k          |
| 3671      | —           | —           | 10k         | 10k         |
| 3672      | —           | —           | 1k          | 1k          |
| 3673      | —           | —           | 10k         | 10k         |
| 3674      | —           | —           | —           | 1k          |
| 3675      | —           | —           | —           | 1k          |
| 3676      | —           | —           | —           | 10k         |
| 3677      | —           | —           | —           | 10k         |
| 3678      | —           | —           | —           | 10k         |
| 3679      | —           | —           | —           | 10k         |
| 3680      | 10kH        | —           | —           | 10uH        |
| 3681      | 10kH        | —           | —           | 10uH        |
| 6603      | —           | LL4148      | —           | LL4148      |
| 6604      | —           | —           | —           | LL4148      |
| 6605      | —           | —           | —           | LL4148      |
| 7654      | —           | —           | BC848       | BC848       |
| 7672      | —           | —           | BC848       | BC848       |
| 7674      | —           | —           | BC848       | BC848       |

SYSTEM 1: PAL BG  
SYSTEM 2: PAL BG : SECAM BG  
SYSTEM 4: PAL BG : SECAM BGLL  
SYSTEM 5: PAL BG : SECAM BGLL

| POS NR | REMOTE CONTROL | NON REM. CONTROL |
|--------|----------------|------------------|
| 1685   | LTM8848        | —                |
| 2660   | 1n             | 4k               |
| 3652   | —              | —                |
| 3653   | 150E           | —                |
| 3656   | 150E           | —                |
| 5801   | 10uH           | —                |
| 6506   | —              | LL4148           |
| 6563   | QSS51L         | —                |

| POS<br>NR | 21°  |
|-----------|------|
| 2629      | 242  |
| 2669      | 47p  |
| 2670      | JHP  |
| 3613      |      |
| 3614      | 47k  |
| 3615      | RES  |
| 3616      | JNP  |
| 3617      | 5k6  |
| 3620      | 100k |
| 3621      | 39k  |
| 3623      | 68k  |
| 3624      | 100k |
| 2626      | 100k |
| 3664      | 91k  |

|      |     |
|------|-----|
| SK1  | F4  |
| SK2  | K4  |
| SK3  | H4  |
| SK4  | F3  |
| SK5  | G3  |
| SK6  | H3  |
| SK7  | G3  |
| SK8  | H3  |
| 1679 | M10 |
| 1685 | C2  |
| 2602 | A11 |
| 2606 | B10 |
| 2510 | B12 |
| 2611 | B13 |
| 2615 | G10 |
| 2620 | H10 |
| 2623 | I15 |
| 2624 | I10 |
| 2625 | I10 |
| 2626 | I10 |
| 2629 | H15 |
| 2630 | G15 |
| 2651 | F10 |
| 2658 | H10 |
| 2660 | D5  |
| 2666 | G5  |
| 2668 | H5  |
| 2670 | M5  |
| 2676 | H11 |
| 2677 | N10 |
| 2678 | N11 |
| 2679 | N11 |
| 2680 | L10 |
| 2681 | M10 |
| 2682 | H10 |
| 2685 | D4  |
| 2686 | K13 |
| 2690 | A8  |
| 3604 | B11 |
| 3605 | B10 |
| 3608 | B10 |
| 3609 | B10 |
| 3608 | K10 |
| 3610 | B10 |
| 3611 | B12 |
| 3612 | I13 |
| 3613 | I13 |
| 3614 | F12 |
| 3615 | F12 |
| 3616 | G10 |
| 3617 | G10 |
| 3618 | G11 |
| 3621 | G11 |
| 3622 | G12 |
| 3623 | G12 |
| 3624 | H12 |
| 3625 | H12 |
| 3627 | H11 |
| 3628 | H11 |
| 3630 | H10 |
| 3631 | K4  |
| 3632 | D14 |
| 3633 | D14 |
| 3655 | D12 |
| 3656 | N11 |
| 3657 | LS  |
| 3658 | N12 |
| 3659 | N12 |
| 3660 | D5  |
| 3661 | D5  |
| 3662 | C5  |
| 3663 | C5  |
| 3664 | H5  |
| 3665 | H5  |
| 3666 | C5  |
| 3667 | C5  |
| 3668 | C5  |
| 3669 | C5  |
| 3671 | I4  |
| 3672 | I3  |
| 3673 | L3  |
| 3674 | L3  |
| 3675 | J2  |
| 3676 | B5  |
| 3677 | J2  |
| 3679 | J2  |
| 3681 | J10 |
| 3685 | J11 |
| 3686 | C13 |
| 3687 | C13 |
| 3688 | C12 |
| 3689 | C12 |
| 3690 | C12 |
| 4742 | M9  |
| 5601 | I11 |
| 5652 | E11 |
| 5653 | E11 |
| 5657 | N10 |
| 6602 | A12 |
| 6603 | E11 |
| 6604 | F1  |
| 6605 | G1  |
| 6606 | E11 |
| 6658 | N13 |
| 6653 | C2  |
| 6677 | J2  |
| 6679 | M11 |
| 7600 | A10 |
| 7605 | B10 |
| 7654 | K10 |
| 7658 | O12 |
| 7660 | O12 |
| 7670 | J12 |
| 7672 | J3  |
| 7674 | L3  |
| 7685 | J12 |



|      |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     |
|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| 0021 | H2  | 2290 | B4  | 2686 | D1  | 3354 | C8  | 3823 | C2  | 5545 | F5  | 7870 | D3  | 9925 | C5  |
| 0022 | I2  | 2291 | B5  | 2690 | D1  | 3355 | C7  | 3824 | C2  | 5554 | H5  | 7872 | E2  | 9926 | E10 |
| 0024 | C1  | 2292 | B5  | 2695 | C2  | 3356 | C7  | 3825 | C2  | 5560 | E3  | 7874 | E1  | 9927 | B6  |
| 0025 | G1  | 2293 | B5  | 2696 | C2  | 3357 | B9  | 3826 | C3  | 5601 | E1  | 7885 | D1  | 9929 | B7  |
| 0042 | A1  | 2294 | B5  | 2697 | C2  | 3358 | C9  | 3827 | C2  | 5652 | D5  | 7886 | D4  | 9930 | B9  |
| 0043 | C10 | 2296 | A4  | 2698 | C2  | 3359 | B9  | 3828 | C2  | 5653 | D4  | 7875 | A10 | 9931 | B9  |
| 1001 | D10 | 2297 | A4  | 2850 | C10 | 3360 | B9  | 3830 | C1  | 5677 | D2  | 7876 | C10 | 9932 | C5  |
| 1015 | C7  | 2298 | B4  | 2852 | B10 | 3362 | C9  | 3831 | C4  | 6014 | D7  | 7877 | B9  | 9933 | B9  |
| 1032 | C6  | 2299 | A4  | 2853 | A10 | 3363 | C9  | 3851 | E2  | 6019 | D9  | 9001 | C10 | 9934 | C9  |
| 1033 | D6  | 2300 | B4  | 2860 | C10 | 3364 | D8  | 3852 | C3  | 6020 | D9  | 9002 | C9  | 9937 | D5  |
| 1135 | A8  | 2301 | B2  | 2875 | A10 | 3365 | C8  | 3853 | C3  | 6034 | C6  | 9003 | C9  | M001 | H1  |
| 1138 | A8  | 2302 | A2  | 2876 | A9  | 3370 | C8  | 3854 | E3  | 6042 | B8  | 9004 | D10 | M002 | G3  |
| 1272 | B2  | 2303 | A2  | 3001 | C9  | 3401 | F9  | 3865 | D3  | 6050 | B6  | 9010 | C8  | M007 | A4  |
| 1540 | F6  | 2304 | A2  | 3002 | D9  | 3402 | F9  | 3866 | D3  | 6051 | B6  | 9011 | D8  | M3   | A1  |
| 1679 | D2  | 2305 | A2  | 3003 | D9  | 3403 | F10 | 3857 | C2  | 6052 | C6  | 9012 | C9  | M4   | F9  |
| 1685 | A1  | 2306 | A3  | 3004 | D9  | 3404 | F10 | 3858 | D3  | 6053 | C6  | 9013 | B9  | M5   | G8  |
| 2001 | C9  | 2307 | A3  | 3010 | D7  | 3405 | F10 | 3859 | D4  | 6115 | D6  | 9014 | B7  | M6   | F9  |
| 2002 | D10 | 2308 | B2  | 3011 | D7  | 3406 | E10 | 3660 | C1  | 6116 | D6  | 9015 | D8  |      |     |
| 2003 | D9  | 2310 | C3  | 3012 | D7  | 3407 | E10 | 3661 | D1  | 6119 | D6  | 9016 | B7  | TP1  | C7  |
| 2004 | D9  | 2321 | B2  | 3015 | D9  | 3408 | G10 | 3662 | B1  | 6120 | D6  | 9018 | B7  | TP2  | B3  |
| 2005 | D8  | 2350 | C8  | 3016 | D9  | 3409 | F10 | 3663 | E1  | 6135 | A8  | 9019 | B6  | TP3  | B2  |
| 2006 | D10 | 2351 | C7  | 3017 | D8  | 3410 | E10 | 3664 | E3  | 6170 | A8  | 9020 | B7  | TP4  | B2  |
| 2007 | C7  | 2352 | C8  | 3018 | D9  | 3411 | F10 | 3665 | E2  | 6172 | A5  | 9021 | B7  | TP5  | B5  |
| 2008 | D8  | 2353 | D6  | 3019 | D9  | 3412 | F10 | 3666 | H1  | 6289 | E9  | 9022 | C8  | TP6  | B5  |
| 2009 | B7  | 2354 | C9  | 3020 | D9  | 3413 | G10 | 3667 | E3  | 6306 | A2  | 9023 | C6  | TP7  | B4  |
| 2010 | D7  | 2355 | C7  | 3021 | D8  | 3414 | F10 | 3668 | D4  | 6365 | C8  | 9024 | C8  | TP8  | B4  |
| 2011 | D7  | 2356 | C8  | 3022 | D8  | 3415 | H10 | 3669 | E3  | 6370 | C7  | 9025 | C6  | TP9  | B4  |
| 2013 | D7  | 2358 | C8  | 3023 | C8  | 3416 | H10 | 3670 | E3  | 6415 | G10 | 9026 | C6  | TP10 | C8  |
| 2014 | D7  | 2364 | C8  | 3024 | C7  | 3417 | F10 | 3671 | E1  | 6416 | G10 | 9027 | D6  | TP11 | C9  |
| 2015 | C9  | 2366 | C8  | 3025 | C7  | 3418 | E10 | 3672 | E3  | 6443 | E8  | 9028 | B6  | TP12 | A2  |
| 2016 | C8  | 2367 | C8  | 3026 | C7  | 3419 | F10 | 3673 | E1  | 6446 | H6  | 9029 | B6  | TP13 | C8  |
| 2017 | D9  | 2368 | C8  | 3027 | D8  | 3440 | H10 | 3674 | E1  | 6449 | F8  | 9030 | B6  | TP14 | C8  |
| 2018 | D9  | 2370 | D4  | 3028 | D8  | 3442 | H10 | 3675 | D5  | 6450 | F8  | 9032 | D6  | TP15 | H9  |
| 2019 | C8  | 2371 | C8  | 3028 | C6  | 3443 | G7  | 3676 | E2  | 6451 | F7  | 9101 | D7  | TP16 | H9  |
| 2020 | D8  | 2401 | H10 | 3030 | C6  | 3444 | H9  | 3677 | C5  | 6452 | F8  | 9102 | D6  | TP17 | H8  |
| 2021 | C9  | 2402 | F9  | 3031 | C6  | 3445 | H9  | 3678 | E2  | 6470 | F8  | 9135 | B7  | TP18 | H10 |
| 2022 | C8  | 2403 | G10 | 3032 | C6  | 3446 | F9  | 3679 | D3  | 6502 | I3  | 9136 | B7  | TP19 | H10 |
| 2025 | D7  | 2404 | F9  | 3033 | C6  | 3447 | G7  | 3680 | D3  | 6503 | I4  | 9137 | B7  | TP20 | H3  |
| 2026 | C8  | 2405 | F10 | 3034 | C7  | 3448 | F8  | 3682 | E1  | 6504 | H4  | 9138 | B6  | TP21 | F4  |
| 2027 | D6  | 2413 | H10 | 3035 | C6  | 3449 | F8  | 3683 | D1  | 6505 | H4  | 9139 | A4  | TP22 | H4  |
| 2030 | C6  | 2414 | H10 | 3036 | C9  | 3450 | F8  | 3684 | D1  | 6511 | H4  | 9140 | B6  | TP23 | F3  |
| 2037 | C7  | 2415 | G10 | 3037 | B8  | 3451 | F7  | 3685 | E1  | 6513 | F1  | 9141 | C5  | TP24 | G4  |
| 2038 | C7  | 2416 | G10 | 3038 | C7  | 3452 | F8  | 3686 | D3  | 6514 | F3  | 9142 | A7  | TP25 | E4  |
| 2041 | B8  | 2417 | F10 | 3039 | C7  | 3453 | G7  | 3687 | D4  | 6515 | F6  | 9143 | B5  | TP26 | C1  |
| 2043 | B8  | 2440 | H10 | 3043 | B8  | 3454 | F7  | 3688 | D4  | 6516 | F6  | 9145 | A5  | TP27 | E1  |
| 2044 | B8  | 2441 | E8  | 3044 | B8  | 3455 | G8  | 3689 | B9  | 6517 | G3  | 9146 | B9  | TP28 | D2  |
| 2101 | D6  | 2442 | H9  | 3049 | C8  | 3456 | G8  | 3692 | D1  | 6521 | F3  | 9148 | A6  | TP29 | D2  |
| 2102 | D7  | 2443 | E7  | 3050 | B6  | 3457 | G7  | 3693 | D4  | 6522 | F4  | 9260 | B4  | TP30 | D2  |
| 2104 | D7  | 2444 | H10 | 3051 | C6  | 3460 | E9  | 3695 | D1  | 6523 | G4  | 9261 | C5  | TP31 | D2  |
| 2110 | D7  | 2445 | H8  | 3052 | B6  | 3481 | E9  | 3696 | D1  | 6530 | H6  | 9282 | A3  | TP32 | D3  |
| 2115 | E6  | 2446 | H7  | 3053 | B6  | 3485 | E9  | 3697 | D1  | 6537 | H6  | 9283 | B4  | TP34 | A6  |
| 2117 | E6  | 2447 | H8  | 3054 | B7  | 3470 | F9  | 3698 | D1  | 6540 | F8  | 9284 | B4  | TP35 | A7  |
| 2118 | D6  | 2448 | G7  | 3055 | B6  | 3501 | H3  | 3699 | H1  | 6545 | E5  | 9285 | A2  | TP36 | A7  |
| 2120 | D6  | 2449 | E8  | 3101 | D5  | 3504 | F1  | 3850 | A10 | 6549 | F5  | 9266 | B4  | TP37 | B4  |
| 2124 | D5  | 2450 | H7  | 3102 | D5  | 3509 | G4  | 3851 | B10 | 6553 | E5  | 9267 | C5  |      |     |
| 2125 | D5  | 2451 | F7  | 3103 | D5  | 3510 | H4  | 3852 | A9  | 6554 | H5  | 9268 | C3  |      |     |
| 2126 | D5  | 2452 | F7  | 3116 | E6  | 3511 | H6  | 3853 | B1  | 6555 | G8  | 9269 | B4  |      |     |
| 2127 | D5  | 2453 | E8  | 3117 | E6  | 3513 | F3  | 3854 | C10 | 6557 | G6  | 9270 | A4  |      |     |
| 2128 | D5  | 2460 | E9  | 3118 | D6  | 3514 | H3  | 3855 | B10 | 6558 | G6  | 9271 | C5  |      |     |
| 2135 | A5  | 2465 | E10 | 3119 | D6  | 3515 | H4  | 3856 | B10 | 6559 | H6  | 9272 | C5  |      |     |
| 2137 | A8  | 2470 | F8  | 3120 | D6  | 3516 | H4  | 3857 | B9  | 6561 | H6  | 9273 | B5  |      |     |
| 2138 | A6  | 2500 | G2  | 3124 | D5  | 3517 | G4  | 3858 | A10 | 6562 | F1  | 9274 | B5  |      |     |
| 2139 | A6  | 2501 | G2  | 3127 | D6  | 3518 | H4  | 3860 | C10 | 6565 | E1  | 9401 | F9  |      |     |
| 2140 | A7  | 2502 | H4  | 3135 | A8  | 3520 | H4  | 3862 | A1  | 6566 | F2  | 9402 | E8  |      |     |
| 2142 | A7  | 2503 | G2  | 3136 | A9  | 3521 | G3  | 3865 | A9  | 6569 | F6  | 9403 | E9  |      |     |
| 2143 | A8  | 2504 | H4  | 3137 | A6  | 3522 | F3  | 3866 | A10 | 6570 | F6  | 9441 | G7  |      |     |
| 2144 | A8  | 2505 | H5  | 3138 | A7  | 3523 | G3  | 3871 | B9  | 6573 | F5  | 9442 | E7  |      |     |
| 2145 | A7  | 2506 | H5  | 3141 | A6  | 3525 | G3  | 3875 | A10 | 6602 | E4  | 9443 | F9  |      |     |
| 2146 | A7  | 2507 | H4  | 3142 | A8  | 3526 | F4  | 3876 | A10 | 6603 | F1  | 9444 | E9  |      |     |
| 2147 | A7  | 2509 | G3  | 3143 | A5  | 3530 | G4  | 3878 | B9  | 6604 | F1  | 9445 | H6  |      |     |
| 2148 | A7  | 2511 | H4  | 3148 | A7  | 3530 | G4  | 3879 | C10 | 6605 | E1  | 9450 | F8  |      |     |
| 2149 | A7  | 2514 | F4  | 3149 | A7  | 3533 | I6  | 3880 | B10 | 6606 | C2  | 9451 | E6  |      |     |
| 2150 | A8  | 2515 | F4  | 3150 | A9  | 3534 | I6  | 3881 | B9  | 6658 | D4  | 9452 | F8  |      |     |
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| 2160 | A4  | 2530 | H6  | 3158 | A9  | 3551 | H6  | 5018 | B7  | 6852 | B10 | 9506 | E5  |      |     |
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| 2164 | A5  | 2534 | G6  | 3161 | A1  | 3554 | F6  | 5040 | B8  | 6855 | B10 | 9509 | F4  |      |     |
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| 2174 | A6  | 2550 | F6  | 3171 | A8  | 3559 | F6  | 5138 | A6  | 7030 | C6  | 9514 | E3  |      |     |
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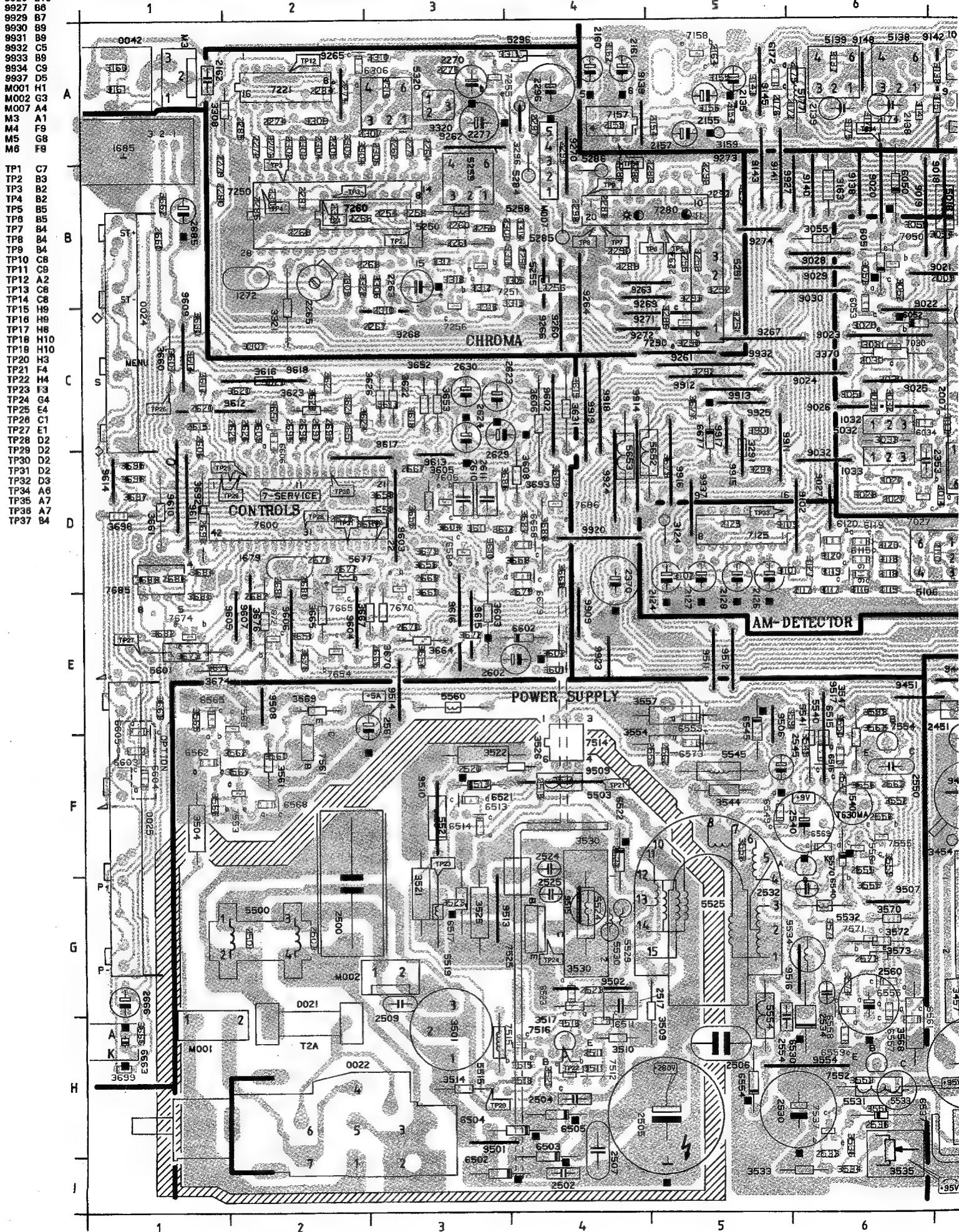
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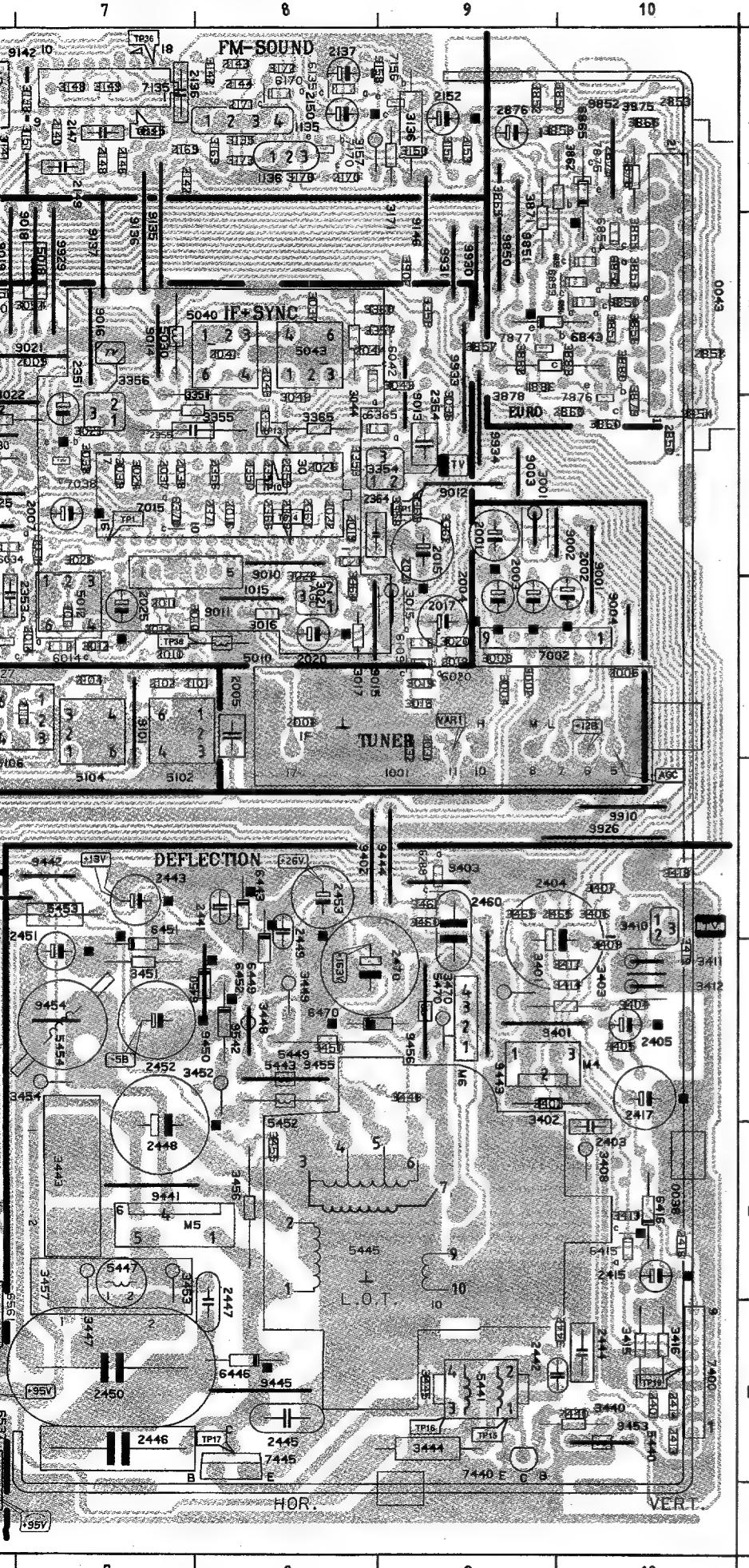
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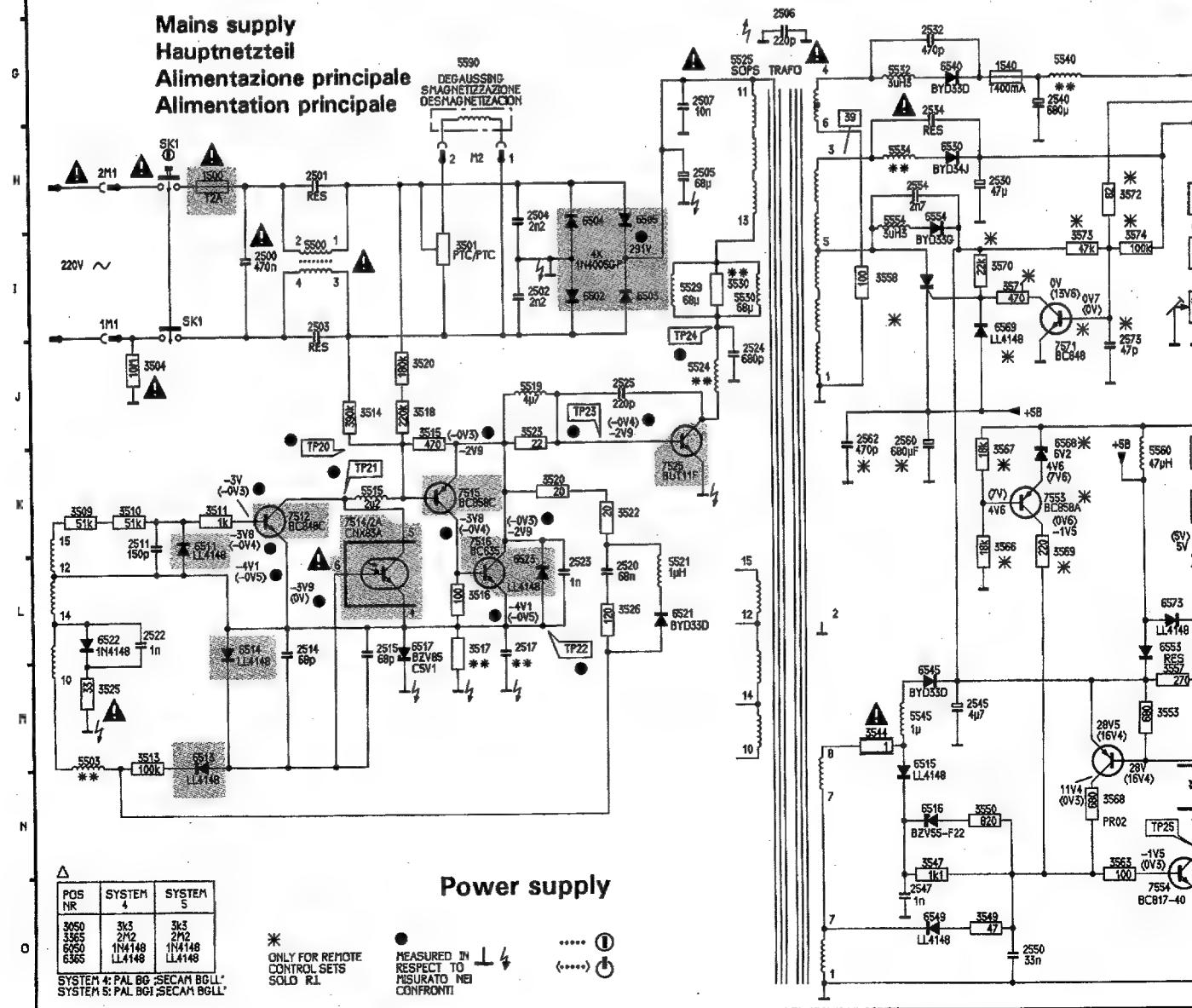
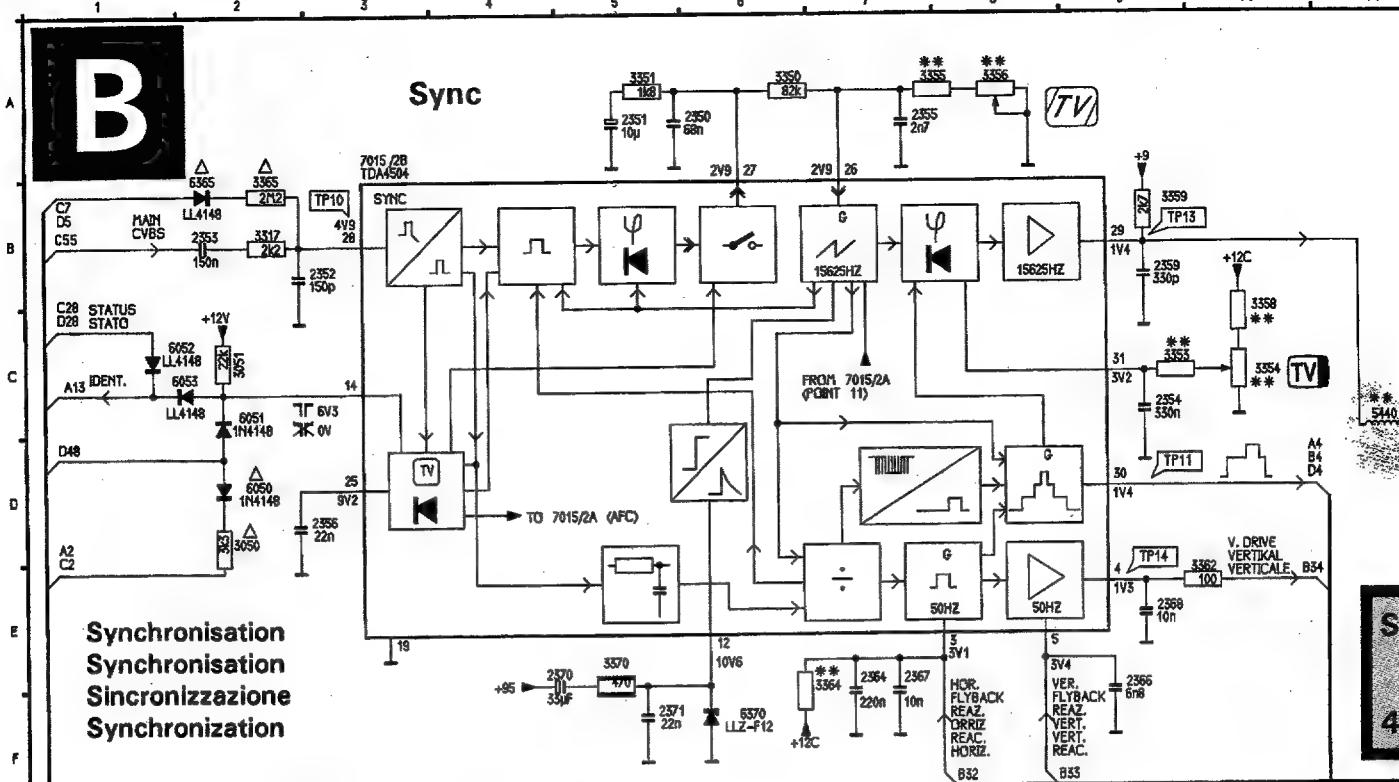
## ANUBIS A

6.5



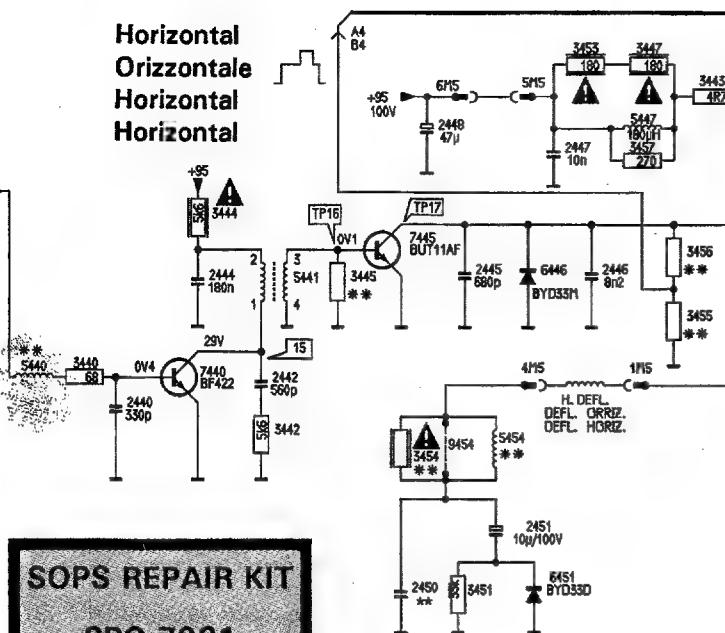
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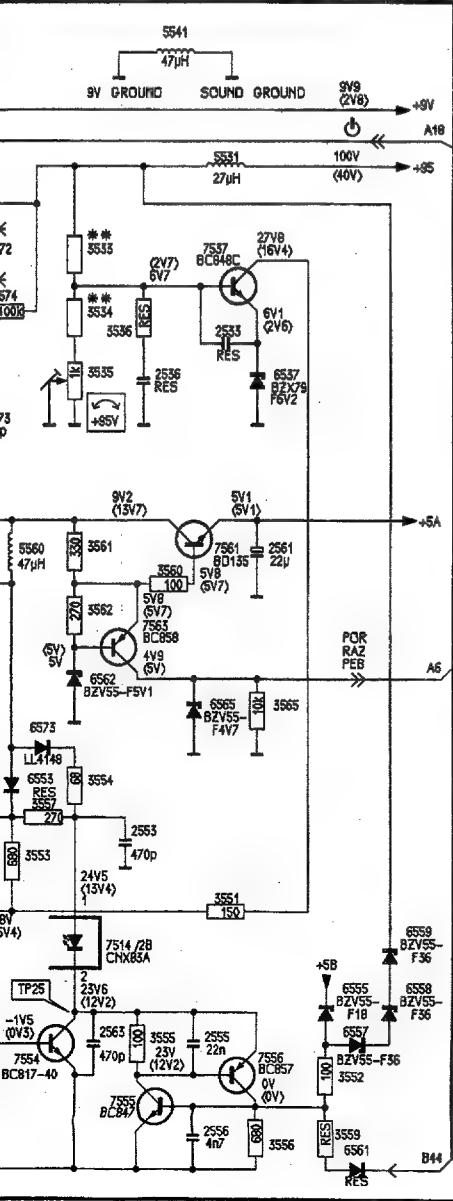


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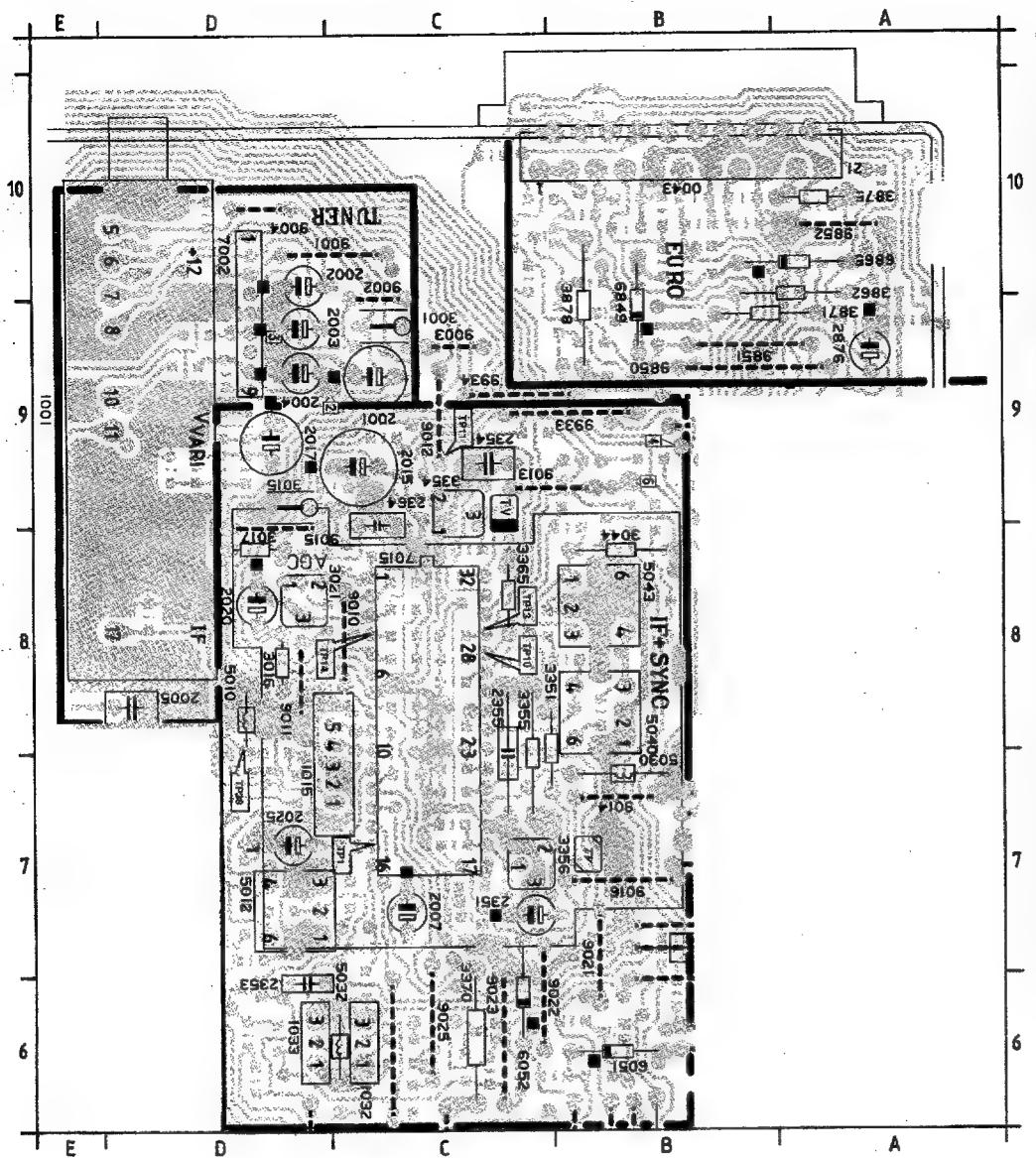


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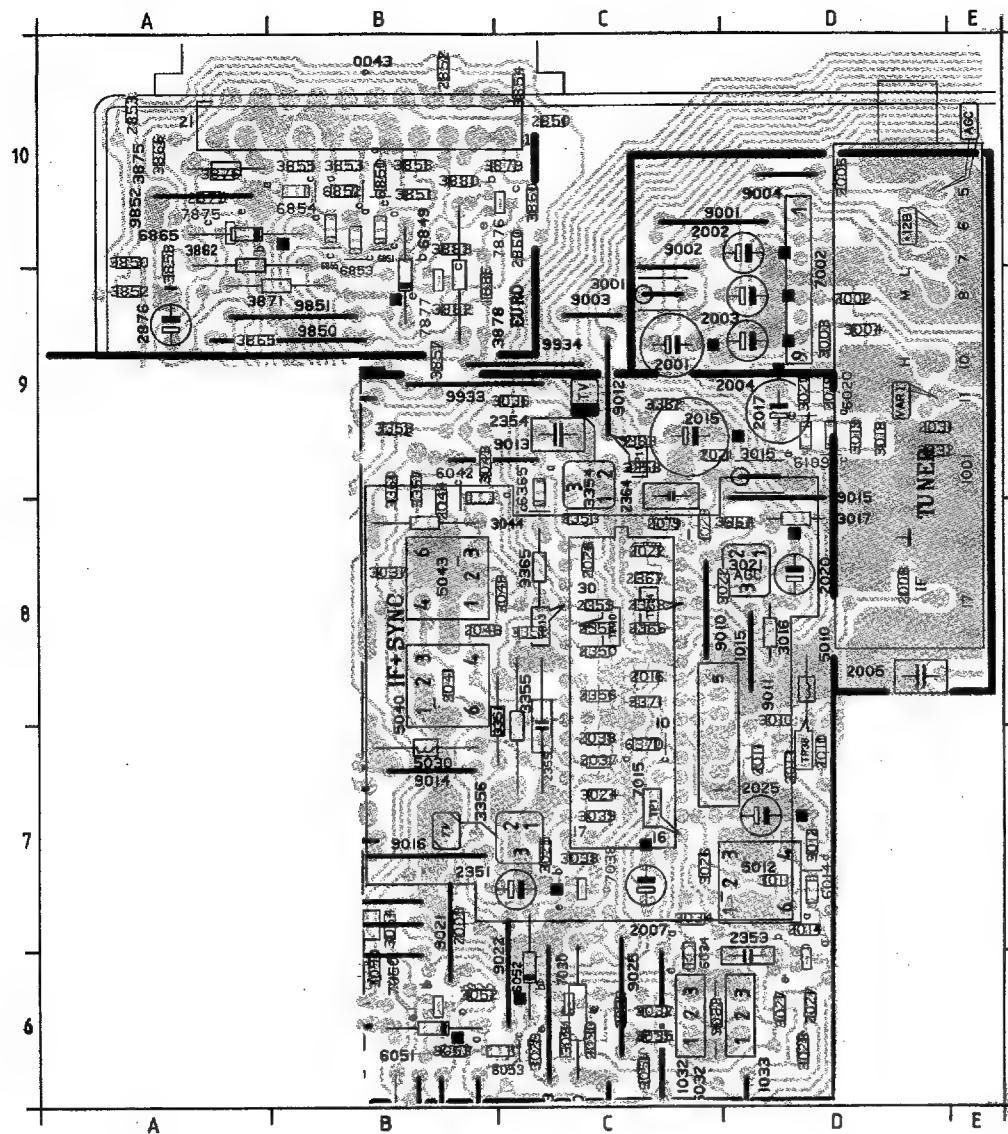


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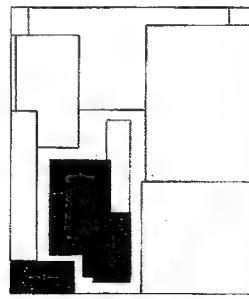
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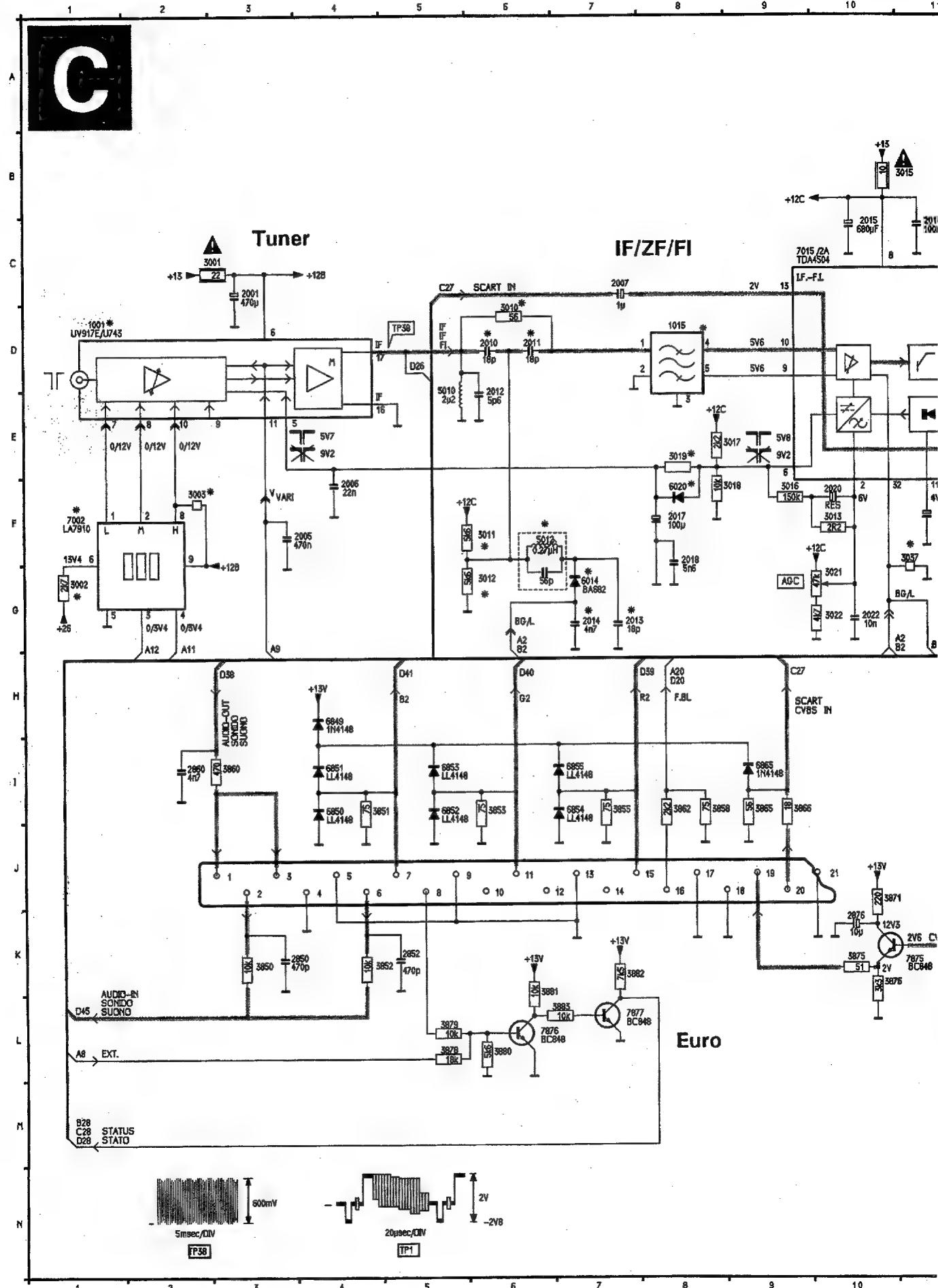
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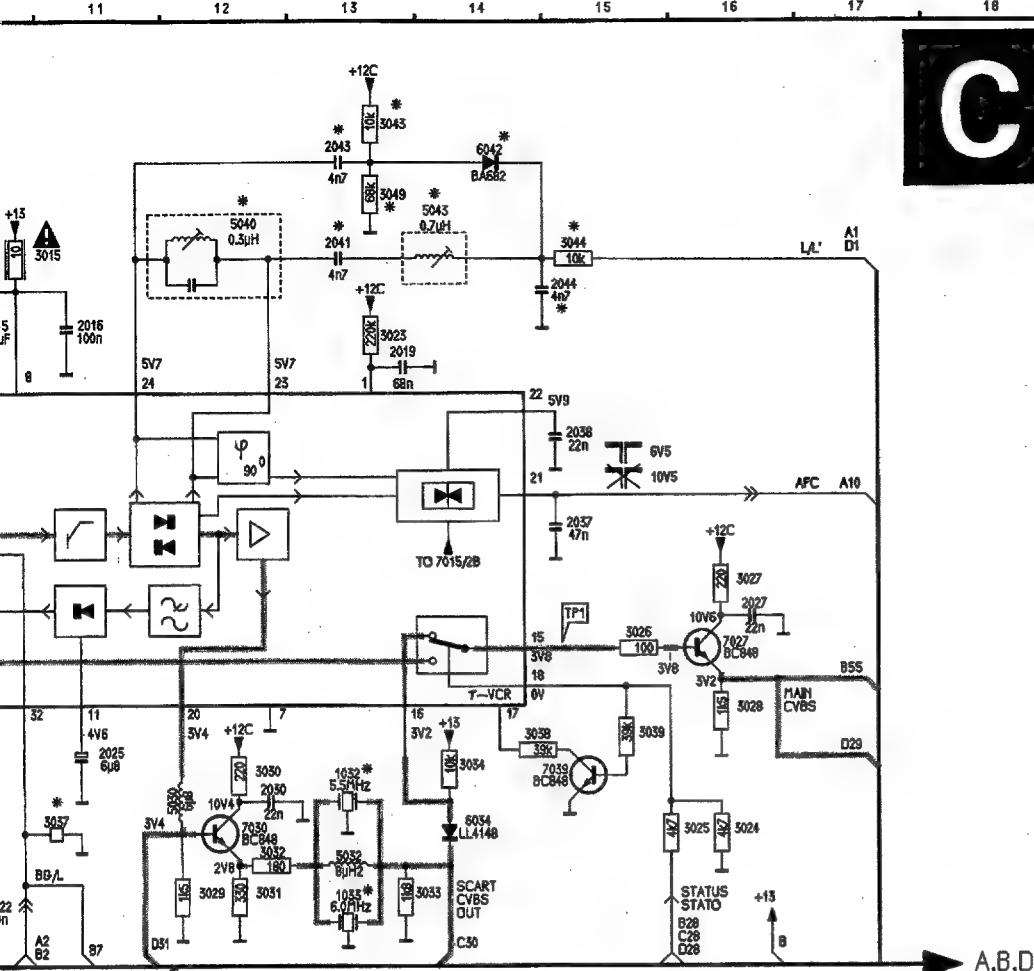
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| 2017 | D9  | 9930 | B9  |
| 2020 | D8  | 9931 | B9  |
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| 3015 | D9  | TP13 | C8  |
| 3016 | D8  | TP14 | C8  |
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| 9018 | B7  |      |     |
| 9021 | B7  |      |     |
| 9022 | C8  |      |     |
| 9023 | C8  |      |     |



|      |     |      |     |      |     |
|------|-----|------|-----|------|-----|
| 0043 | C10 | 3022 | D8  | 5040 | BB  |
| 1001 | D10 | 3023 | C8  | 5043 | BB  |
| 1615 | C7  | 3024 | C7  | 5102 | D8  |
| 1032 | C6  | 3025 | C7  | 6019 | D9  |
| 1033 | D6  | 3026 | C7  | 6020 | D9  |
| 2001 | C9  | 3029 | C6  | 6034 | C6  |
| 2002 | D10 | 3030 | C6  | 6042 | BB  |
| 2003 | D9  | 3031 | C6  | 6051 | BB  |
| 2004 | D9  | 3032 | C6  | 6052 | C6  |
| 2005 | D8  | 3033 | C6  | 6053 | C6  |
| 2008 | D10 | 3034 | C7  | 6365 | C8  |
| 2007 | C7  | 3035 | C6  | 6370 | C7  |
| 2008 | D8  | 3036 | C9  | 6849 | BB  |
| 2009 | B7  | 3037 | BB  | 6850 | B10 |
| 2015 | C9  | 3038 | C7  | 6851 | B10 |
| 2016 | C8  | 3039 | C7  | 6852 | B10 |
| 2017 | D9  | 3043 | BB  | 6853 | B10 |
| 2018 | D8  | 3044 | BB  | 6854 | B10 |
| 2019 | C8  | 3049 | C8  | 6855 | B10 |
| 2020 | D8  | 3051 | C6  | 6885 | A10 |
| 2021 | C9  | 3054 | B7  | 7002 | D10 |
| 2022 | C8  | 3350 | C8  | 7015 | C8  |
| 2026 | C8  | 3351 | C8  | 7030 | C6  |
| 2030 | C6  | 3353 | C8  | 7038 | C7  |
| 2037 | C7  | 3354 | C8  | 7875 | A10 |
| 2038 | C7  | 3355 | C7  | 7876 | C10 |
| 2041 | B8  | 3356 | C8  | 7877 | BB  |
| 2043 | B8  | 3357 | BB  | 9001 | C10 |
| 2044 | B8  | 3358 | C9  | 9002 | C8  |
| 2101 | D8  | 3359 | BB  | 9003 | C9  |
| 2350 | C8  | 3360 | BB  | 9004 | D10 |
| 2351 | C7  | 3362 | C9  | 9010 | C8  |
| 2352 | C8  | 3363 | C9  | 9011 | D8  |
| 2353 | D8  | 3364 | BB  | 9012 | C9  |
| 2354 | C9  | 3365 | C8  | 9013 | BB  |
| 2355 | C7  | 3370 | C8  | 9014 | B7  |
| 2356 | C8  | 3850 | A10 | 9015 | D8  |
| 2359 | C8  | 3851 | B10 | 9018 | B7  |
| 2364 | C8  | 3853 | B10 | 9021 | B7  |
| 2366 | C8  | 3854 | C10 | 9022 | C6  |
| 2367 | C8  | 3855 | B10 | 9023 | C8  |
| 2368 | C8  | 3858 | B10 | 9024 | C6  |
| 2371 | C8  | 3857 | BB  | 9025 | C6  |
| 2850 | C10 | 3858 | A10 | 9026 | C6  |
| 2852 | B10 | 3860 | C10 | 9855 | BB  |
| 2853 | A10 | 3862 | A10 | 9851 | BB  |
| 2860 | C10 | 3868 | A10 | 9852 | A10 |
| 2876 | A9  | 3871 | BB  | 9933 | B9  |
| 2875 | A10 | 3875 | A10 | 9934 | C9  |
| 3001 | C8  | 3876 | A10 | TP1  | C7  |
| 3002 | D9  | 3878 | BB  | TP10 | C8  |
| 3003 | D9  | 3879 | C10 | TP11 | C9  |
| 3004 | D9  | 3880 | B10 | TP13 | C8  |
| 3015 | D9  | 3881 | BB  | TP14 | C8  |
| 3018 | D8  | 3882 | B9  |      |     |
| 3017 | D8  | 3883 | B10 |      |     |
| 3018 | D8  | 3902 | B9  |      |     |
| 3019 | D9  | 5010 | B8  |      |     |
| 3020 | D8  | 5030 | B7  |      |     |
| 3021 | D8  | 5032 | C6  |      |     |







### Source selection video

## Source Selection Bildquellenwahl

#### Selezione sorgenti dell' immagine

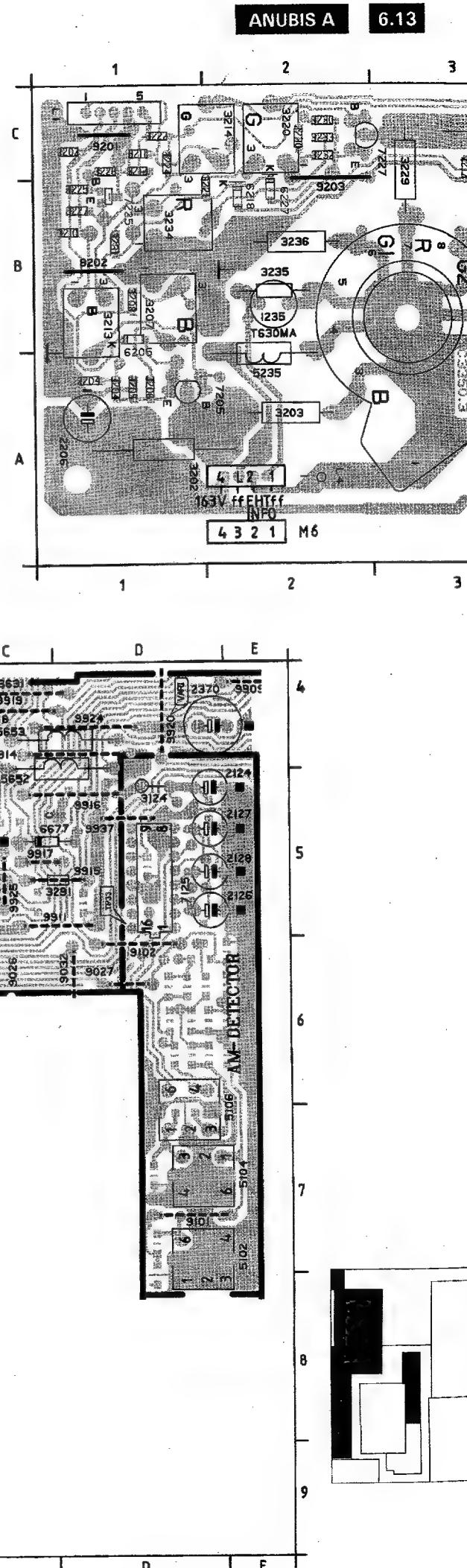
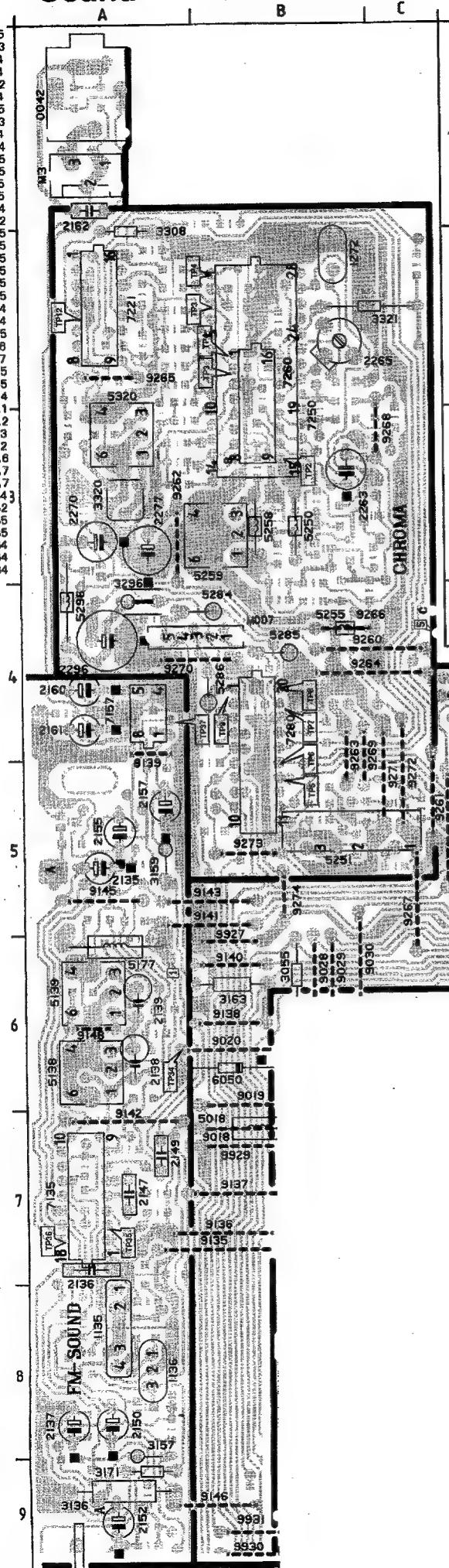
## Selezione sorgenti dell'immagine

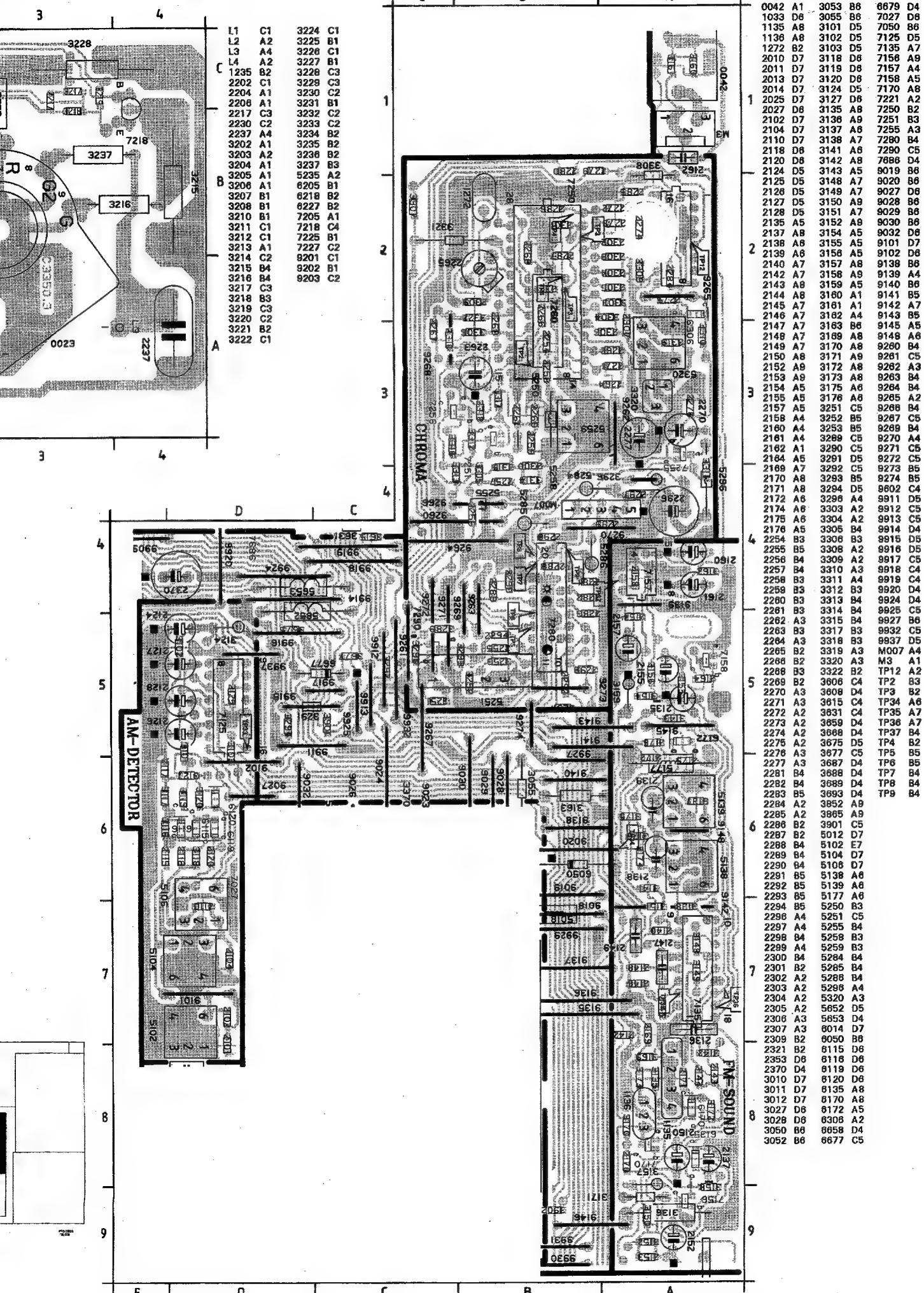
| POS NR | SYSTEM 1  | SYSTEM 2  | SYSTEM 3  | SYSTEM 4  | SYSTEM 5  |
|--------|-----------|-----------|-----------|-----------|-----------|
| 1001   | UV917     | U745      | UV917     | UV917     | UV917     |
| 1015   | OFW/G1951 | OFW/G1951 | OFW/G2950 | OFW/G3950 | OFW/G3950 |
| 1032   | 5.5MHz    | -         | 5.5MHz    | 5.5MHz    | 5.5MHz    |
| 1035   | -         | 6.0MHz    | 6.5MHz    | -         | 6.0MHz    |
| 2010   | -         | -         | -         | 180       | 180       |
| 2011   | -         | -         | -         | 180       | 180       |
| 2013   | -         | -         | -         | 180       | 180       |
| 2014   | -         | -         | -         | 400       | 400       |
| 2026   | -         | -         | -         | 220       | 220       |
| 2041   | -         | -         | -         | 400       | 400       |
| 2043   | -         | -         | -         | 400       | 400       |
| 2044   | -         | -         | -         | 400       | 400       |
| 3002   | 2k7       | -         | 2k7       | -         | 2k7       |
| 3003   | -         | JMP       | JMP       | -         | -         |
| 3010   | JMP       | -         | JMP       | 56E       | 56E       |
| 3011   | -         | -         | -         | 56E       | 56E       |
| 3012   | -         | -         | -         | 56E       | 56E       |
| 3018   | JMP       | JMP       | JMP       | 56E       | 56E       |
| 3023   | -         | -         | -         | JMP       | JMP       |
| 3037   | JMP       | JMP       | JMP       | -         | -         |
| 3043   | -         | -         | -         | 10k       | 10k       |
| 3044   | -         | -         | -         | 10k       | 10k       |
| 3049   | -         | -         | -         | 68k       | 68k       |
| 5012   | -         | -         | -         | 0.28uH    | 0.28uH    |
| 5040   | 0.19uH    | 0.19uH    | 0.19uH    | 0.30uH    | 0.30uH    |
| 5043   | -         | -         | -         | 0.70uH    | 0.70uH    |
| 6014   | -         | -         | -         | BA862     | BA862     |
| 6020   | -         | -         | -         | LL2-C2V4  | LL2-C2V4  |
| 6042   | -         | -         | -         | BA862     | BA862     |
| 7002   | LA7910    | -         | LA7910    | LA7910    | LA7910    |

SYSTEM 1: PAL BG  
SYSTEM 2: PAL I  
SYSTEM 3: PAL BG; SECAM BGOK  
SYSTEM 4: PAL BG; SECAM BGLL'  
SYSTEM 5: PAL BG; SECAM BGLL'

ESV.0034  
T28/123

|      |     |
|------|-----|
| 0042 | A1  |
| 1033 | D8  |
| 1135 | A8  |
| 1136 | A8  |
| 1272 | B2  |
| 1685 | A1  |
| 2025 | D7  |
| 2124 | D5  |
| 2128 | D5  |
| 2127 | D5  |
| 2128 | D5  |
| 2135 | A5  |
| 2137 | A8  |
| 2138 | A6  |
| 2139 | A6  |
| 2147 | A7  |
| 2149 | A7  |
| 2150 | A8  |
| 2152 | A9  |
| 2155 | A5  |
| 2157 | A5  |
| 2160 | A4  |
| 2161 | A4  |
| 2162 | A1  |
| 2283 | B3  |
| 2285 | B2  |
| 2270 | A3  |
| 2277 | A3  |
| 2296 | A4  |
| 2353 | D6  |
| 2623 | C3  |
| 2624 | C3  |
| 2629 | C3  |
| 2630 | C3  |
| 2876 | A9  |
| 3055 | B6  |
| 3124 | D5  |
| 3138 | A9  |
| 3157 | A8  |
| 3159 | A5  |
| 3163 | B6  |
| 3171 | A9  |
| 3291 | D5  |
| 3286 | A4  |
| 3308 | A2  |
| 3320 | A3  |
| 3321 | C2  |
| 3606 | C4  |
| 3618 | C2  |
| 3622 | C2  |
| 3623 | C2  |
| 3628 | C3  |
| 3631 | C4  |
| 3652 | C3  |
| 3853 | C3  |
| 5012 | D7  |
| 5018 | B7  |
| 5030 | B7  |
| 5104 | D7  |
| 5106 | D7  |
| 5138 | A6  |
| 5138 | A6  |
| 5177 | 'A8 |
| 5250 | 'B3 |
| 5251 | C5  |
| 5255 | B4  |
| 5258 | B3  |
| 5259 | B3  |
| 5284 | B4  |
| 5285 | B4  |
| 5286 | B4  |
| 5298 | A4  |
| 5320 | A3  |
| 5852 | D5  |
| 6030 | B6  |
| 6051 | B6  |
| 6677 | C5  |
| 7125 | D5  |
| 7135 | A7  |
| 7157 | A4  |
| 7221 | A2  |
| 7250 | B2  |
| 7288 | B4  |
| 8014 | B7  |
| 8016 | B7  |
| 8018 | B7  |
| 9019 | B6  |
| 9020 | B6  |
| 9021 | B7  |
| 9027 | D6  |
| 9028 | B6  |
| 9029 | B8  |
| 9030 | B6  |
| 9032 | D6  |
| 9101 | D7  |
| 9102 | D6  |
| 9135 | B7  |
| 9136 | B7  |
| 9137 | B7  |
| 9138 | B6  |
| 9139 | A4  |
| 9140 | N8  |
| 9141 | B5  |
| 9142 | A7  |
| 9143 | B5  |
| 9145 | A5  |
| 9148 | A6  |
| 9260 | R6  |





**1. Adjustments on the main panel (Fig. 7)**

**1.1 +100V power supply voltage**  
Connect a voltmeter (DC) between pin 6 of connector M5 and ground. Adjust potentiometer 3535 for a voltage of +100V (14"-17") or +92,5V (21").

**1.2 Horizontal synchronization**  
Interconnect pins 8 and 28 of IC7015. Apply an aerial signal and tune the set. Adjust potentiometer 3356 until the picture is straight. Remove the interconnection.

**1.3 Horizontal centring**  
Is adjusted with potentiometer 3354.

**1.4 Vertical centring**  
Can be adjusted by eventually mounting one of the resistors 3401 or 3408.

**1.5 Picture height**  
Is adjusted with potentiometer 3410.

**1.6 Focussing**  
Is adjusted with the focussing potentiometer in the line output transformer (see Fig. 8).

**1.7 IF filter for PAL/SECAM BGLL'- or PAL/SECAM BGLL'I sets**  
Connect a signal generator (e.g. PM 5326) via a condensator 5p6 to pin 17 of the tuner and adjust the frequency for 33.4 MHz. Connect an oscilloscope to pin 1 of filter 1015. Switch on the set and select system Europe via the system button on the set. Adjust 5012 for a minimum amplitude.

**1.8 AFC**

**a. Alignments for PAL/SECAM BGLL'- or PAL/SECAM BGLL'I sets**  
Connect a signal generator (e.g. PM 5326) as indicated in point 1.7 and adjust the frequency for 33.4 MHz. Tune the set in the VHF1 band at a tuning voltage of approx. 5V on pin 11 of the tuner. Select system France via the system button on the set. Connect a voltmeter to pin 21 of IC7015. Adjust 5040 for 6V (DC). Next adjust the frequency of the signal generator for 38,9 MHz. Select system Europe on the set. Adjust 5043 for 6V (DC).

**b. Alignment for PAL BG-, PAL/SECAM BG-, PAL/SECAM BGDK- or PAL I sets**  
Connect a signal generator (e.g. PM 5326) as indicated in point 1.7 and adjust the frequency for 38,9 MHz (PAL I: 39,5MHz). Connect a voltmeter to pin 21 of IC7015. Adjust 5040 for 6V (DC).

**1.9 RF AGC**  
If the picture of a strong local transmitter is reproduced distorted, adjust potentiometer 3021 until the picture is undistorted.

**1.10 Chroma band**  
Connect a signal source with a frequency of 20 of the euro connection to pin 20 of the IC7250 (+1 of IC7250). Adjust 5255. Remove the connection.

**1.11 Chroma sub**  
Apply a PAL 11 of IC7250 (TDA4650) pattern on the screen. Remove the connection.

**1.12 SECAM den**  
Apply a SECAM oscilloscope reading. Connect the set. Adjust 3321.

**1.13 The FM sound**

**a. General adjustment**  
Apply a PAL signal whose frequency is Set the generator. Tune the set to Europe. Adjust 513.

**b. Additional alignment**  
After the general adjustment, connect the generator to the set. Adjust 513.

**1.14 The AM sound**  
PAL/SECAM. Connect pin 1 to +2V by means of a condensator. Connect a signal generator to the frequency signal with a frequency of 30,9 MHz. Tune the set to France. First adjust 510. Adjust 510. Adjust the frequency of 30,9 MHz. Adjust 510. Remove the connection.

## 2. Adjustments on the picture tube panel (Fig. 9)

### 2.1 Cut-off points of picture tube

Apply a black pattern generator signal. Adjust contrast at minimum.

Adjust brightness until the DC voltage across potentiometer 3213 is 0V.

Adjust 3207, 3220 and 3234 for a black level of 125V on the collectors of transistors 7205, 7218 and 7227.

Adjust Vg2 potentiometer until the gun that first emits light is just no longer visible. Adjust the two other guns with the respective controls (3207, 3220 or 3234) until just no light will be visible.

**2.2 Grey scale**  
Apply a test signal. Set contrast to about 10 mV. Set desired grey level.

**Chroma band-pass filter for PAL/SECAM sets**  
Connect a signal generator (e.g. PM5326) to pin 20 of the euro connector and adjust it for a frequency of 4,286 MHz. Connect pin 8 of the euro connector and pin 27 of IC7250 to pin 13 of IC7250 (+12V). Connect an oscilloscope to pin 15 of IC7250. Connect 5259 for a maximum amplitude. Remove the interconnections.

### Chroma subcarrier oscillator

Apply a PAL colour-bar pattern. Interconnect pin 11 of IC7260 (TDA4510) or pin 17 of IC7250 (TDA4650) to ground. Adjust 2265 so that colour pattern on the screen is practically stationary. Remove the interconnection.

### SECAM demodulators for PAL/SECAM sets

Apply a SECAM black pattern. Connect an oscilloscope to pin 1 of IC7250. Adjust 5320 for 0 reading. Connect the oscilloscope to pin 3 of IC7250. Adjust 3320 for 0 reading.

### The FM sound section

#### General adjustments

Apply a PAL BG (PAL I for PAL I sets) generator signal whose sound carrier is (FM) modulated with a frequency of 1 kHz. Set the generator to the mono mode. Tune the set and select, if possible, system Europe. Adjust 5138 for maximum sound output.

**Additional adjustment for PAL/SECAM BGDK sets**  
After the general adjustment (see point a.) put the generator in SECAM DK position. Adjust 5139 for maximum sound output.

#### The AM sound section for PAL/SECAM BGLL' or PAL/SECAM BGLL'I sets

Connect pin 3 of IC7125 to a fixed voltage level of +2V by means of an adjustable power supply. Connect a signal generator (e.g. PM 5326) via a condensator 5p6 to pin 17 of the tuner and adjust the frequency for 32,4 MHz. Modulate (AM) the signal with 1 kHz.

Tune the set in the UHF band and select system France.

First adjust 5106 for maximum sound output. Next adjust 5104 for maximum sound output.

Adjust the frequency of the signal generator for 30,9 MHz. and modulate (AM) the signal with 1 kHz.

Adjust 5102 for minimum sound output. Remove the power supply connection.

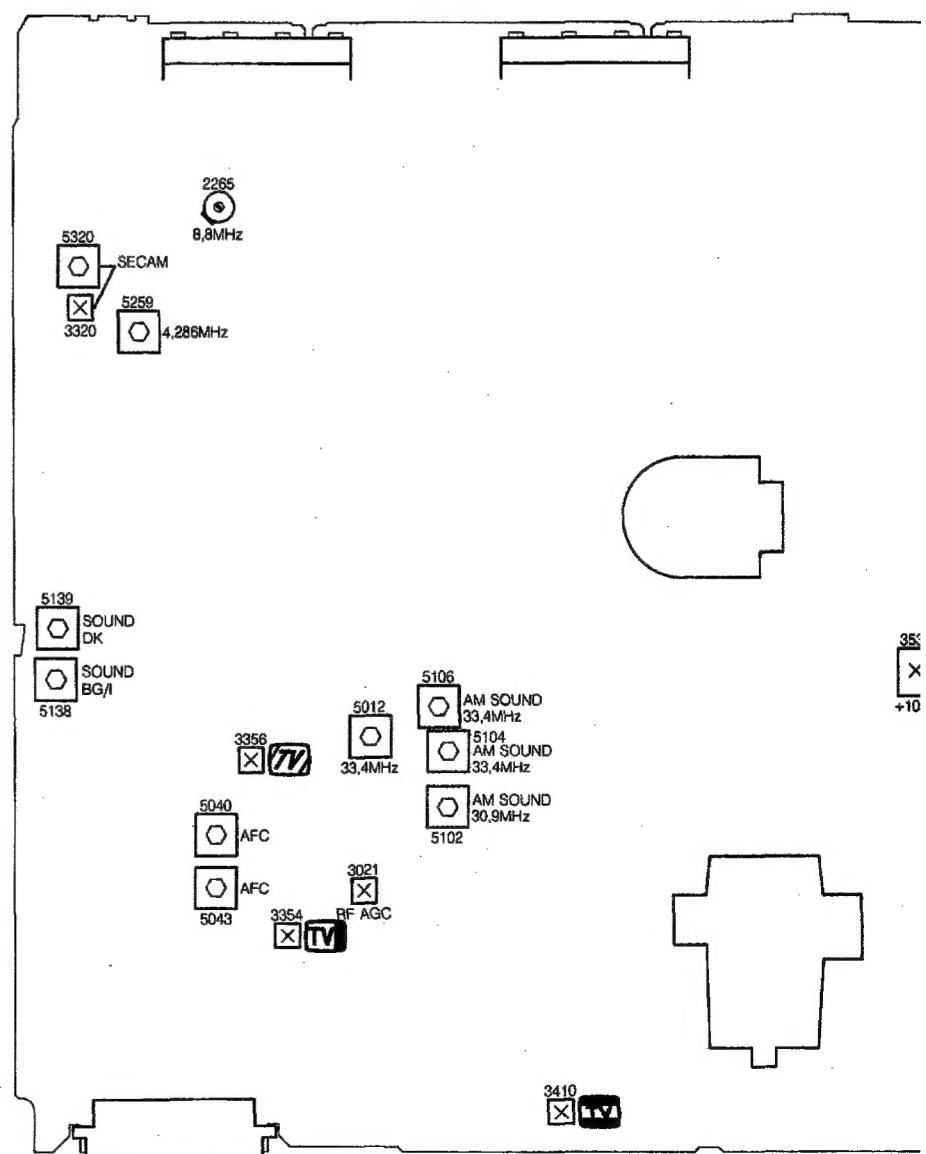
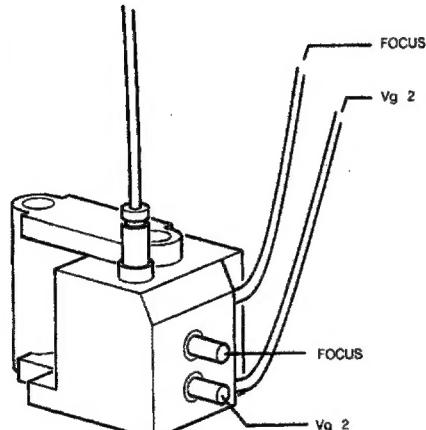


Fig. 7

## 2 Grey scale

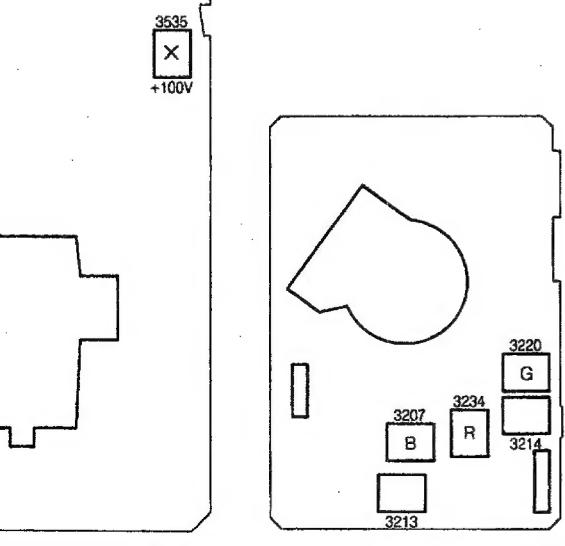
Apply a test pattern signal and adjust the set for normal operation. Allow the set to warm up for about 10 minutes. Adjust 3213 and 3214 until the desired grey scale has been obtained.

| ERROR MESSAGE     | ERROR DESCRIPTION      |
|-------------------|------------------------|
| Flashing LED      | Internal $\mu$ C error |
| F2 + Flashing LED | EEPROM error           |



MDA.00633  
CP90  
T28/723

Fig. 8



MDA.02812  
T28/036

Fig. 9

MDA.02811  
T10/037

## List of error messages

| ERROR MESSAGE     | ERROR DESCRIPTION      | POSSIBLE DEFECTIVE COMPONENT |
|-------------------|------------------------|------------------------------|
| Flashing LED      | Internal $\mu$ C error | IC7600                       |
| F2 + Flashing LED | EEPROM error           | IC7685                       |

|       |                |                |       |                |              |      |                |                |
|-------|----------------|----------------|-------|----------------|--------------|------|----------------|----------------|
| 5286  | 4822 157 60141 | 3,3 $\mu$ H    | 6521  | 4822 130 42488 | BYD33D       | 7537 | 5322 130 60159 | BC846B         |
| 5296  | 4822 157 51462 | 10 $\mu$ H     | 6522  | 4822 130 30621 | 1N4148       | 7552 | 4822 130 42155 | BC327A         |
| 5320  | 4822 157 52808 | 10 $\mu$ H     | 6523  | 4822 130 80446 | LL4148       | 7553 | 5322 130 42012 | BC858A         |
| 5320  | 4822 157 52808 | 10 $\mu$ H     | 6530  | 4822 130 82033 | BYD34J       | 7554 | 4822 130 42032 | BC337A         |
| 5441  | 4822 146 21116 | LOT DRIVER     | 6537  | 4822 130 34167 | BZX79-F6V2   | 7555 | 5322 130 60159 | BC846          |
| 5445  | 4822 140 10406 | LOT AT2079/40  | 6540  | 4822 130 42488 | BYD33D       | 7556 | 4822 130 60138 | BC856          |
| 5447  | 4822 157 62766 | 262LYF-0095K   | 6545  | 4822 130 42488 | BYD33D       | 7561 | 4822 130 40823 | BD135          |
| 5449  | 4822 158 10551 | 27 $\mu$ H     | 6549  | 4822 130 80446 | LL4148       | 7563 | 5322 130 42012 | BC858          |
| 5452  | 4822 157 51157 | 3,3 $\mu$ H    | 6554  | 4822 130 42489 | BYD33G       | 7571 | 4822 130 61207 | BC848          |
| 5453  | 4822 157 51462 | 10 $\mu$ H     | 6555  | 4822 130 82305 | LLZ-F18      | 7600 | 4822 209 63948 | TMP47C434N3122 |
| 5454  | 4822 156 21332 | LINEARITY COIL | 6557  | 4822 130 80887 | LLZ-F36      | 7605 | 4822 209 73852 | PMBT2369       |
| 5500  | 4822 212 22978 | MAINSFILTER    | 6558  | 4822 130 80887 | LLZ-F36      | 7654 | 4822 130 61207 | BC848          |
| 5515  | 4822 157 50963 | 2,2 $\mu$ H    | 6559  | 4822 130 80887 | LLZ-F36      | 7658 | 5322 130 42136 | BC848C         |
| 5525  | 4822 148 81121 | SOP5 TRF       | 6562  | 4822 130 80905 | LLZ-F5V1     | 7665 | 4822 130 61207 | BC848          |
| 5529  | 4822 157 63411 | 68 $\mu$ H     | 6565  | 4822 130 81252 | LLZ-F4V7     | 7670 | 4822 130 61207 | BC848          |
| 5530  | 4822 157 63411 | 68 $\mu$ H     | 6568  | 4822 130 81147 | LLZ-F6V2     | 7672 | 4822 130 61207 | BC848          |
| 5531  | 4822 158 10551 | 27 $\mu$ H     | 6569  | 4822 130 80446 | LL4148       | 7674 | 4822 130 61207 | BC848          |
| 5532  | 4822 157 51157 | 3,3 $\mu$ H    | 6570  | 4822 130 20245 | SFOR5D43     | 7685 | 4822 209 62098 | ST24C02AB1     |
| 5541  | 4822 156 20966 | 47 $\mu$ H     | 6573  | 4822 130 80446 | LL4148       | 7686 | 4822 130 61207 | BC848          |
| 5545  | 4822 157 51195 | 1 $\mu$ H      | 6602  | 4822 130 82037 | HZT33        | 7675 | 4822 130 61207 | BC848          |
| 5554  | 4822 157 51157 | 3,3 $\mu$ H    | 6603  | 4822 130 80446 | LL4148       | 7676 | 4822 130 61207 | BC848          |
| 5560  | 4822 157 51462 | 10 $\mu$ H     | 6604  | 4822 130 80446 | LL4148       | 7677 | 4822 130 61207 | BC848          |
| 5601  | 4822 157 51462 | 10 $\mu$ H     | 6605  | 4822 130 80446 | LL4148       |      |                |                |
| 5652  | 4822 157 51462 | 10 $\mu$ H     | 6658  | 4822 130 80446 | LL4148       |      |                |                |
| 5653  | 4822 157 51462 | 10 $\mu$ H     | 6679  | 4822 130 80446 | LL4148       |      |                |                |
| 5677  | 4822 157 53906 | 47 $\mu$ H     | 6849  | 4822 130 30621 | 1N4148       |      |                |                |
| <hr/> |                |                |       |                |              |      |                |                |
| 6014  | 4822 130 80888 | BA682          | 6850  | 4822 130 80446 | LL4148       |      |                |                |
| 6020  | 4822 130 81223 | LLZ-C2V4       | 6851  | 4822 130 80446 | LL4148       |      |                |                |
| 6034  | 4822 130 80446 | LL4148         | 6852  | 4822 130 80446 | LL4148       |      |                |                |
| 6042  | 4822 130 80888 | BA682          | 6853  | 4822 130 80446 | LL4148       |      |                |                |
| 6050  | 4822 130 30621 | 1N4148         | 6854  | 4822 130 80446 | LL4148       |      |                |                |
| 6051  | 4822 130 30621 | 1N4148         | 6855  | 4822 130 80446 | LL4148       |      |                |                |
| 6052  | 4822 130 30621 | 1N4148         | 6865  | 4822 130 30621 | 1N4148       |      |                |                |
| 6053  | 4822 130 80446 | LL4148         | <hr/> |                |              |      |                |                |
| 6115  | 4822 130 80888 | BA682          | 7002  | 4822 209 10892 | LA7910       |      |                |                |
| 6116  | 4822 130 80888 | BA682          | 7015  | 4822 209 63107 | TDA4504B/N1B |      |                |                |
| 6119  | 4822 130 80888 | BA682          | 7027  | 4822 130 61207 | BC848        |      |                |                |
| 6120  | 4822 130 80888 | BA682          | 7030  | 4822 130 61207 | BC848        |      |                |                |
| 6135  | 4822 130 80883 | LLZ-C4V7       | 7038  | 4822 130 61207 | BC848        |      |                |                |
| 6170  | 4822 130 80888 | BA682          | 7125  | 4822 209 63105 | TDA3843/V2   |      |                |                |
| 6172  | 4822 130 80888 | BA682          | 7135  | 4822 209 30278 | TDA3827/V3   |      |                |                |
| 6205  | 4822 130 80446 | BAS32L         | 7156  | 4822 130 61207 | BC848        |      |                |                |
| 6218  | 4822 130 80446 | BAS32L         | 7157  | 4822 209 80956 | TDA7052/N1   |      |                |                |
| 6227  | 4822 130 80446 | BAS32L         | 7158  | 4822 130 61207 | BC848        |      |                |                |
| 6289  | 4822 130 80446 | BAS32L         | 7170  | 4822 130 61207 | BC848        |      |                |                |
| 6306  | 4822 130 80954 | LLZ-C5V6       | 7205  | 4822 130 41782 | BF422        |      |                |                |
| 6370  | 4822 130 82304 | LLZ-F12        | 7218  | 4822 130 41782 | BF422        |      |                |                |
| 6415  | 4822 130 80446 | LL4148         | 7221  | 4822 209 63108 | TDA4660/V2   |      |                |                |
| 6416  | 4822 130 42488 | BYD33D         | 7225  | 5322 130 42012 | BC858        |      |                |                |
| 6443  | 5322 130 31938 | BYV27-200      | 7227  | 4822 130 41782 | BF422        |      |                |                |
| 6446  | 4822 130 32896 | BYD33M         | 7250  | 4822 209 30011 | TDA4650/V4   |      |                |                |
| 6449  | 5322 130 32967 | BYV26B         | 7250  | 4822 209 30011 | TDA4650/V4   |      |                |                |
| 6451  | 4822 130 42488 | BYD33D         | 7251  | 4822 130 61207 | BC848        |      |                |                |
| 6452  | 4822 130 42488 | BYD33D         | 7251  | 4822 130 61207 | BC848        |      |                |                |
| 6470  | 4822 130 42488 | BYD33D         | 7255  | 4822 130 42696 | BC818-25     |      |                |                |
| 6502  | 4822 130 81497 | 1N4005GP       | 7256  | 4822 130 61207 | BC848        |      |                |                |
| 6503  | 4822 130 81497 | 1N4005GP       | 7280  | 4822 209 63104 | TDA3504/V1   |      |                |                |
| 6504  | 4822 130 81497 | 1N4005GP       | 7290  | 4822 130 42134 | BC858BR      |      |                |                |
| 6505  | 4822 130 81497 | 1N4005GP       | 7400  | 4822 209 60955 | TDA3653B/N1  |      |                |                |
| 6511  | 4822 130 80446 | LL4148         | 7440  | 4822 130 41782 | BF422        |      |                |                |
| 6513  | 4822 130 80446 | LL4148         | 7445  | 4822 130 42679 | BUT11AF      |      |                |                |
| 6514  | 4822 130 80446 | LL4148         | 7512  | 5322 130 42136 | BC848C       |      |                |                |
| 6515  | 4822 130 80446 | LL4148         | 7514  | 4822 130 82034 | CNX83A       |      |                |                |
| 6516  | 4822 130 80886 | LLZ-F22        | 7515  | 4822 130 42513 | BC858C       |      |                |                |
| 6517  | 4822 130 31456 | BZV85-C5V1     | 7516  | 5322 130 44349 | BC635        |      |                |                |
|       |                |                | 7525  | 4822 130 42679 | BUT11AF      |      |                |                |